Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content
NEWS 18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20	Feb 13	CANCERLIT is no longer being updated
NEWS 21	Feb 24	METADEX enhancements
NEWS 22	Feb 24	PCTGEN now available on STN
NEWS 23	Feb 24	TEMA now available on STN
NEWS 24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 25	Feb 26	PCTFULL now contains images
NEWS 26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27	Mar 19	APOLLIT offering free connect time in April 2003
NEWS 28	Mar 20	EVENTLINE will be removed from STN
NEWS 29	Mar 24	PATDPAFULL now available on STN
NEWS 30	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 31	Apr 11	Display formats in DGENE enhanced
NEWS 32	Apr 14	MEDLINE Reload
NEWS 33	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 34	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 35	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:51:39 ON 28 APR 2003

=> ile reg
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:51:51 ON 28 APR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7
DICTIONARY FILE UPDATES: 25 APR 2003 HIGHEST RN 505904-68-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

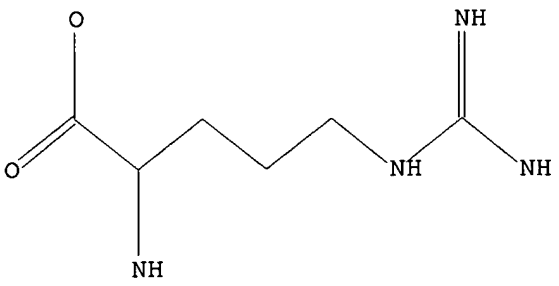
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09844816 search core.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:52:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13643 TO ITERATE

7.3% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 265872 TO 279848
PROJECTED ANSWERS: 36897 TO 42231

L2 50 SEA SSS SAM L1

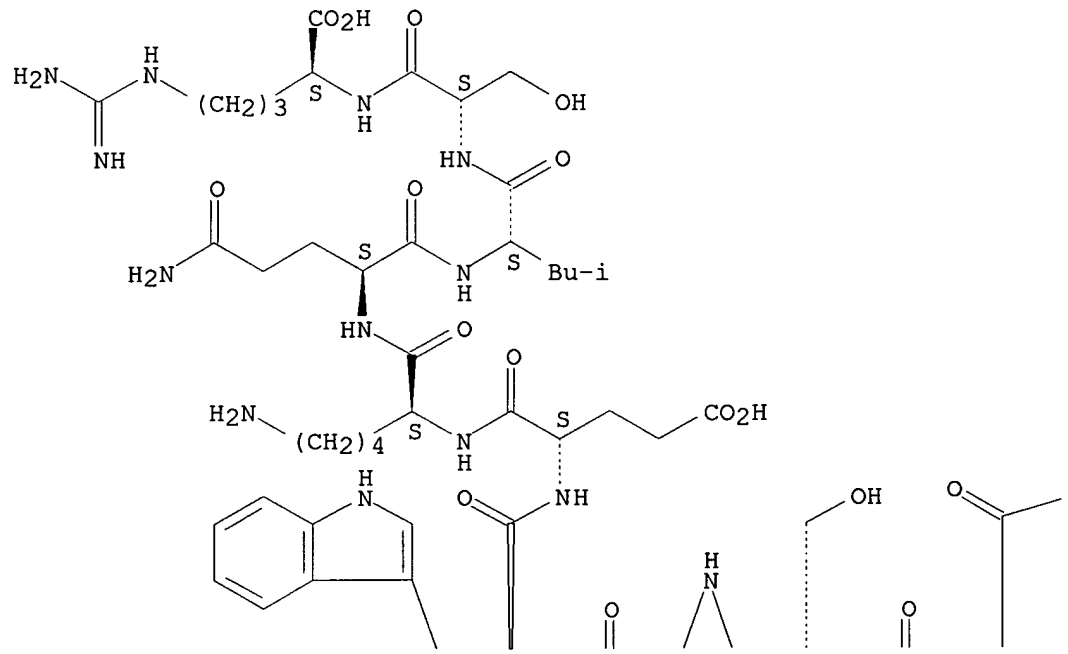
=> d scan

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine,
L-seryl-L-seryl-L-arginyl-L-prolyl-L-seryl-L-prolyl-L-seryl-L-

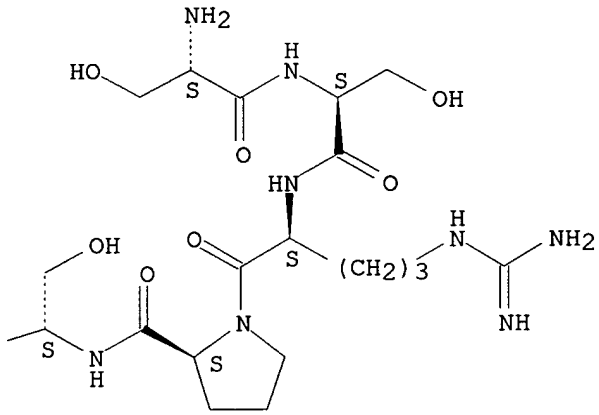
phenylalanyl-L-tryptophyl-L-.alpha.-glutamyl-L-lysyl-L-glutaminyl-L-leucyl-
L-seryl- (9CI)
SQL 15
MF C79 H122 N24 O24

Absolute stereochemistry.

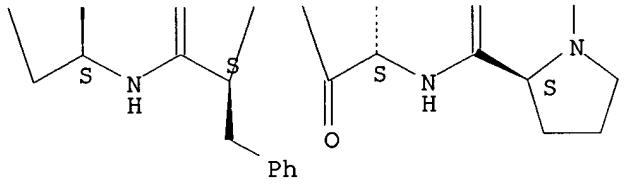
PAGE 1-A



PAGE 1-B



PAGE 2-A



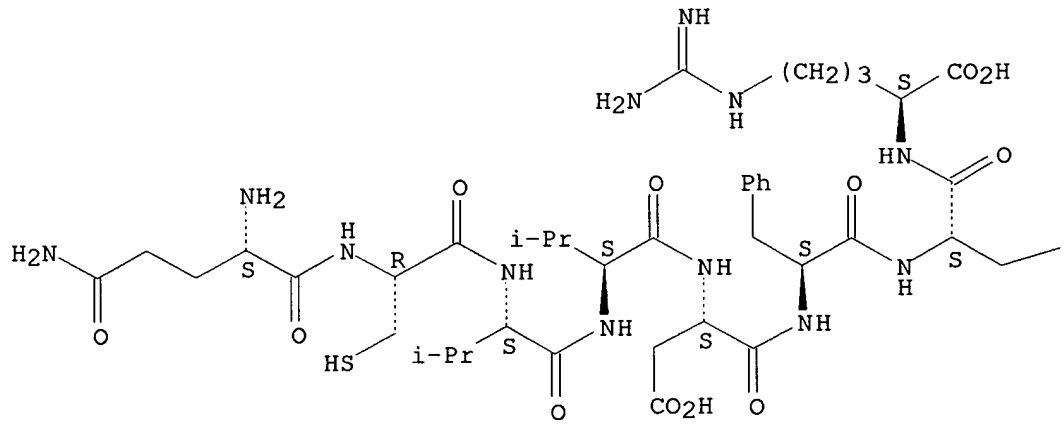
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

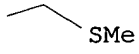
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine,
L-glutaminyl-L-cysteinyl-L-valyl-L-valyl-L-.alpha.-aspartyl-L-phenylalanyl-L-methionyl- (9CI)
SQL 8
MF C42 H68 N12 O12 S2

Absolute stereochemistry.

PAGE 1-A



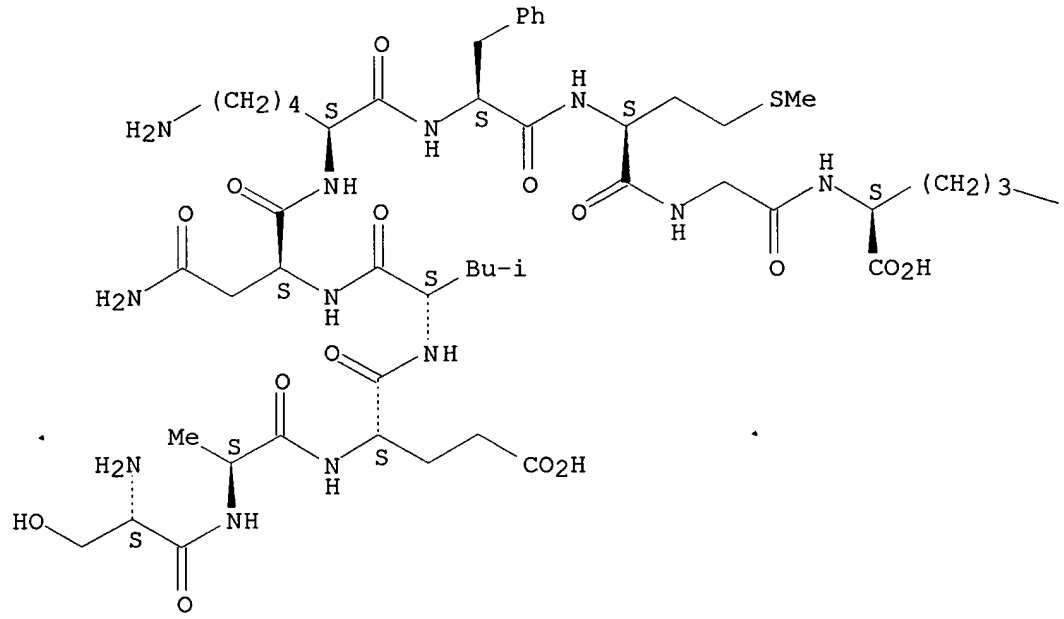
PAGE 1-B



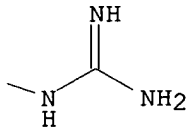
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-seryl-L-alanyl-L-.alpha.-glutamyl-L-leucyl-L-asparaginyl-L-lysyl-L-phenylalanyl-L-methionylglycyl- (9CI)
SQL 10
MF C49 H81 N15 O15 S

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

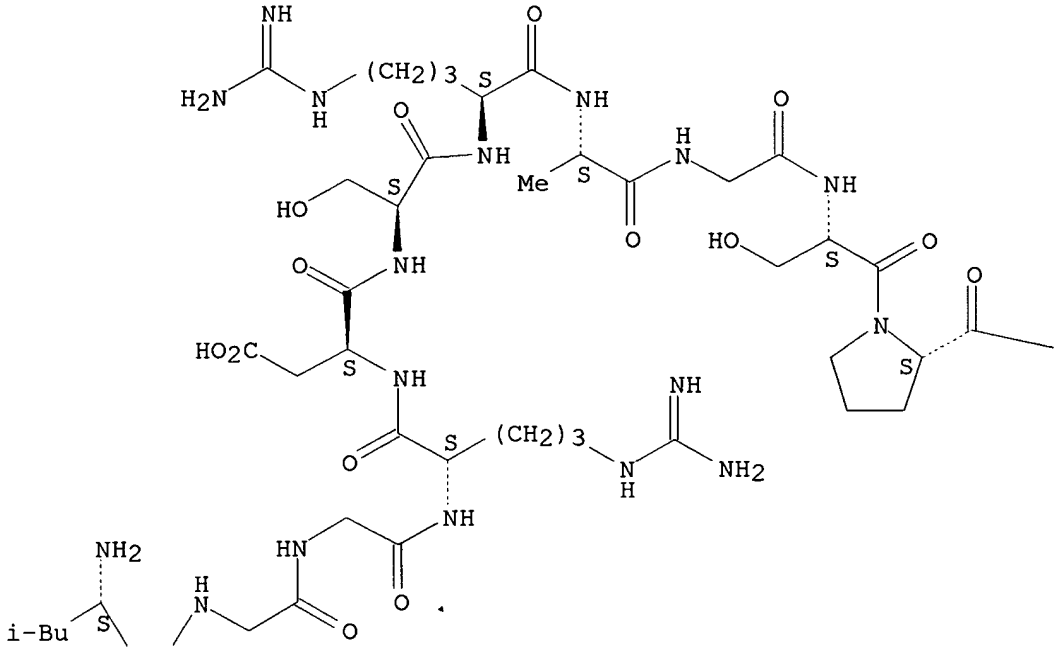


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

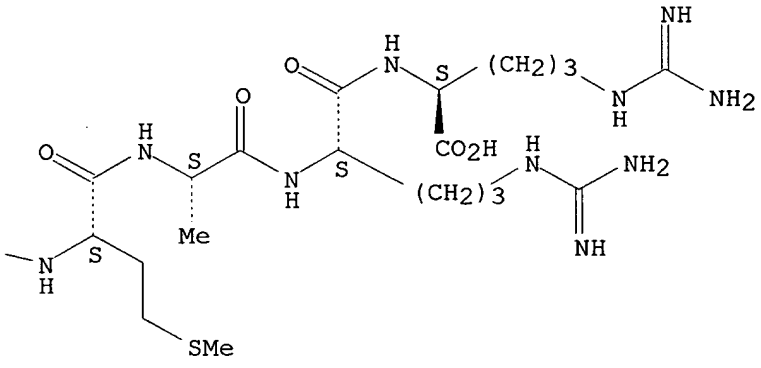
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-leucylglycylglycyl-L-arginyl-L-.alpha.-aspartyl-L-seryl-L-arginyl-L-alanylglycyl-L-seryl-L-prolyl-L-methionyl-L-alanyl-L-arginyl- (9CI)
SQL 15
MF C62 H111 N27 O20 S

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

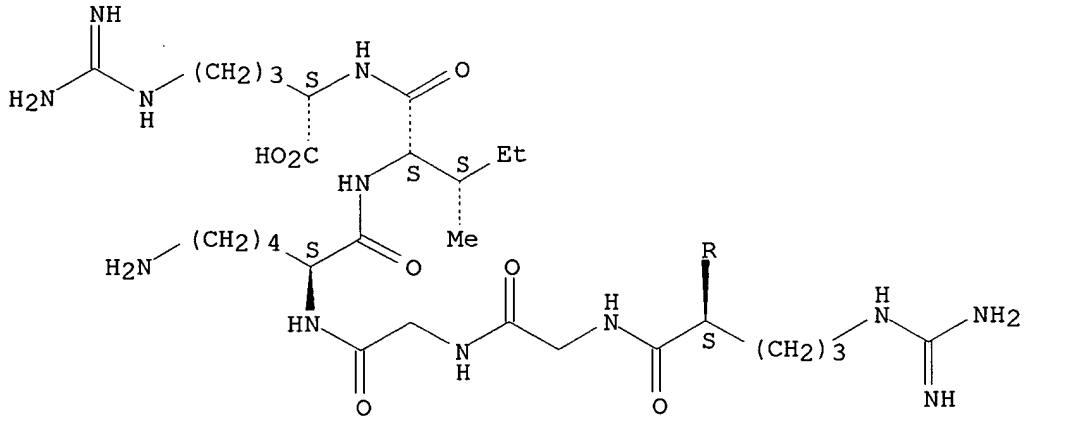


PAGE 2-A

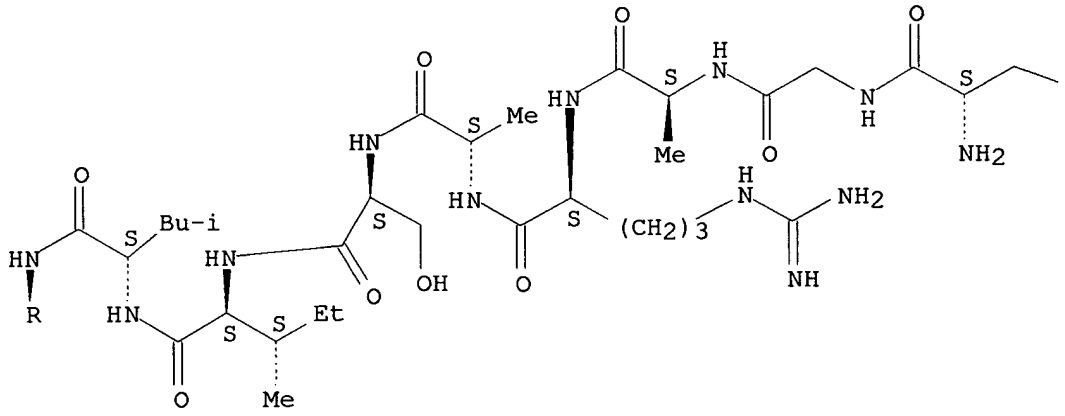
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-methionylglycyl-L-alanyl-L-arginyl-L-alanyl-L-seryl-L-isoleucyl-L-leucyl-L-arginylglycylglycyl-L-lysyl-L-isoleucyl- (9CI)
SQL 14
MF C62 H116 N24 O16 S

Absolute stereochemistry.

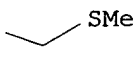
PAGE 1-A



PAGE 2-A



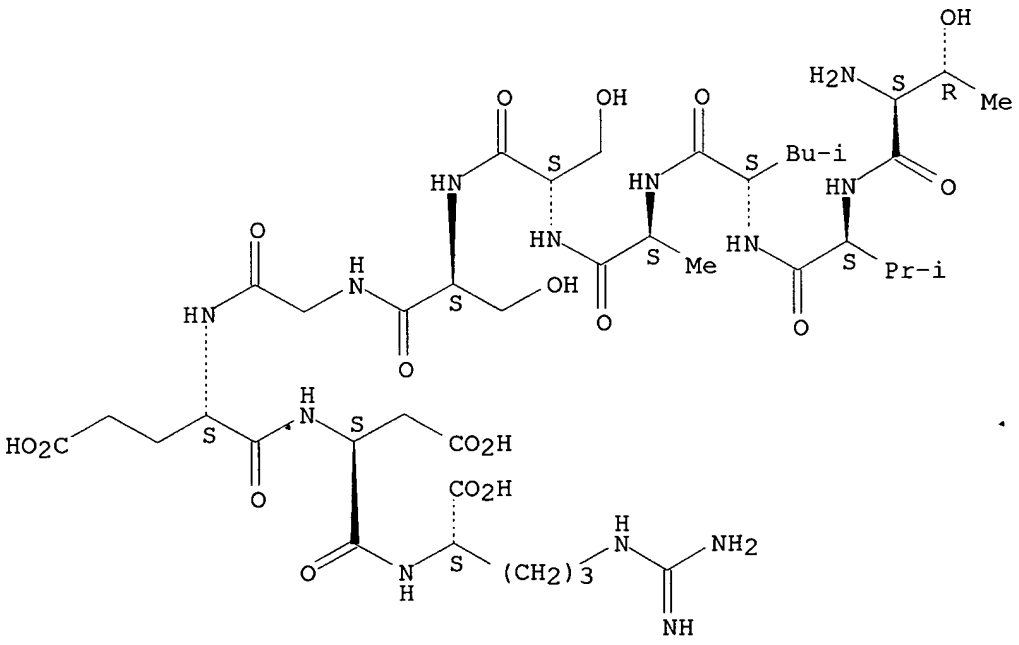
PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-threonyl-L-valyl-L-leucyl-L-alanyl-L-seryl-L-serylglycyl-L-.alpha.-glutamyl-L-.alpha.-aspartyl- (9CI)
SQL 10
MF C41 H71 N13 O18

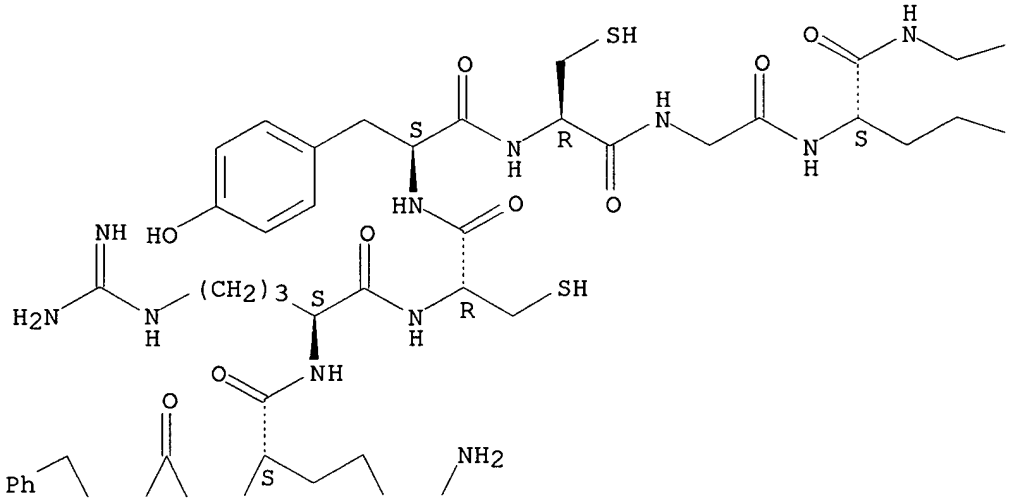
Absolute stereochemistry.



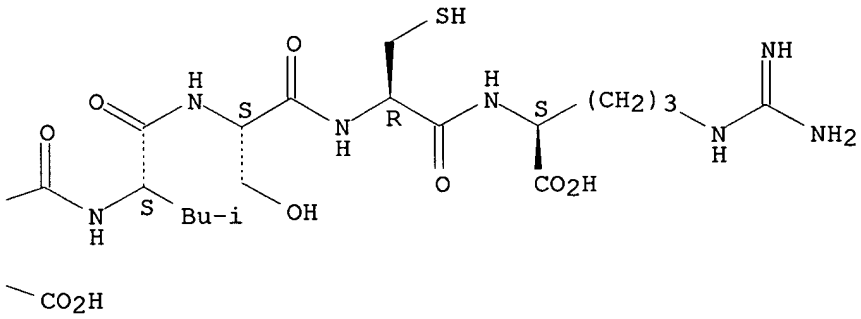
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-.alpha.-glutamyl-L-isoleucyl-L-phenylalanyl-L-glutaminyl-L-arginyl-L-cysteinyl-L-tyrosyl-L-cysteinylglycyl-L-.alpha.-glutamylglycyl-L-leucyl-L-seryl-L-cysteinyl- (9CI)
SQL 15
MF C73 H114 N22 O23 S3

Absolute stereochemistry.

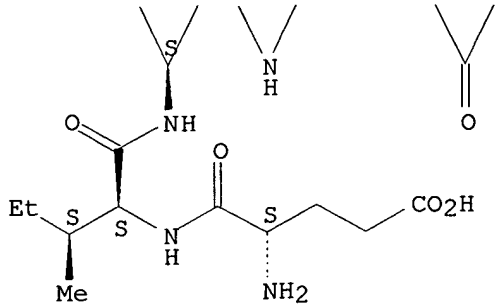
PAGE 1-A



PAGE 1-B



PAGE 2-A

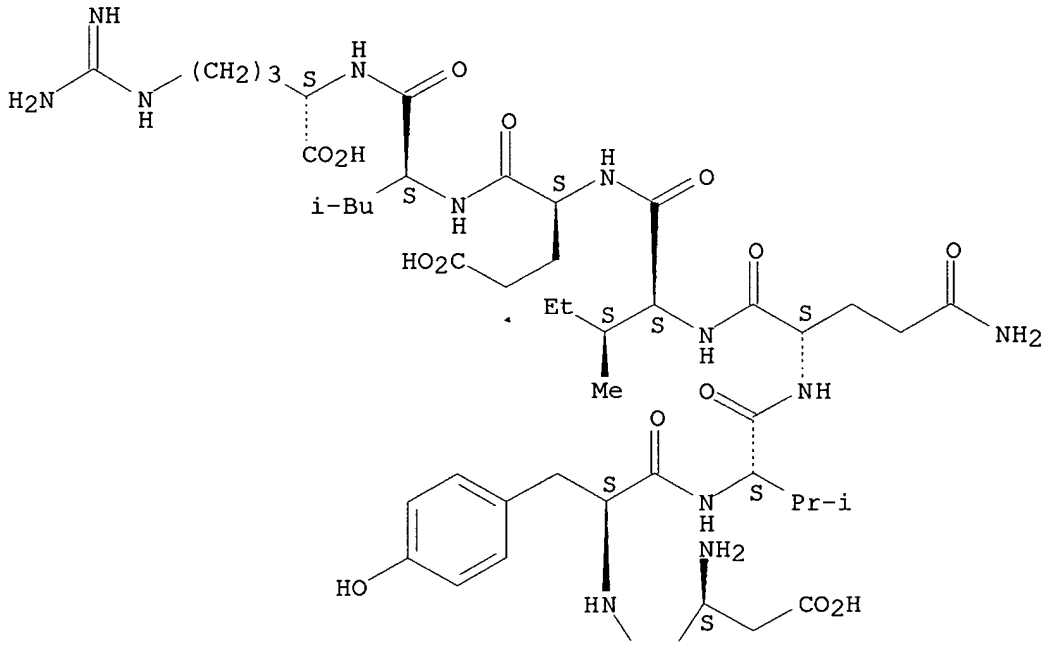


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine,
L-.alpha.-aspartyl-L-tyrosyl-L-valyl-L-glutaminyl-L-isoleucyl-
L-.alpha.-glutamyl-L-leucyl- (9CI)
SQL 8
MF C46 H74 N12 O15

Absolute stereochemistry.

PAGE 1-A

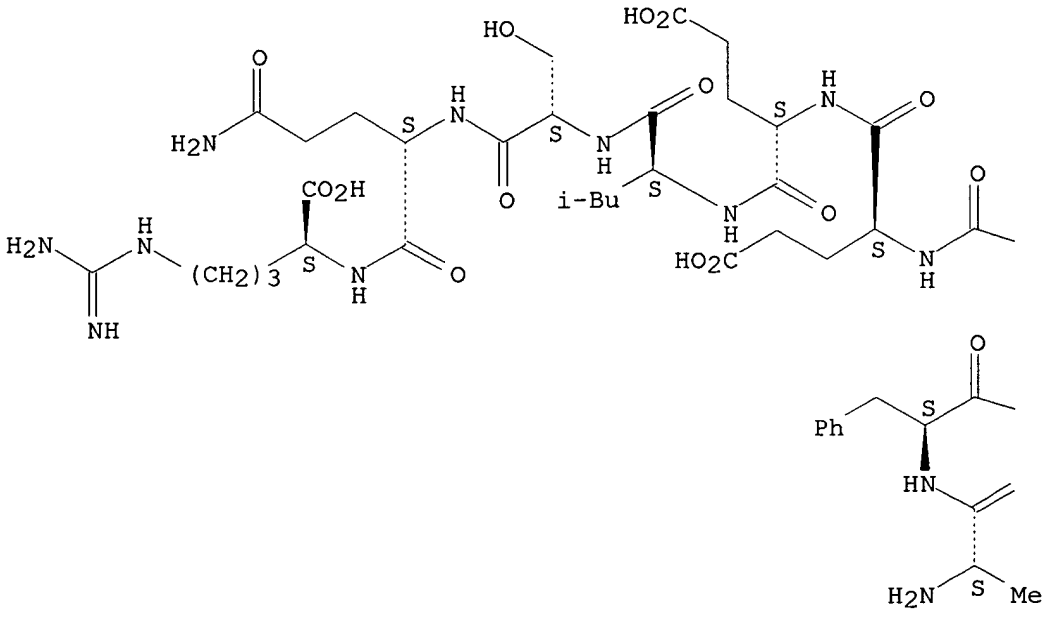


PAGE 2-A

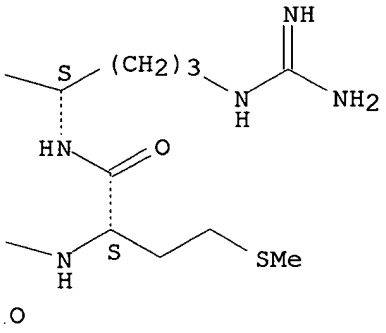
L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-alanyl-L-phenylalanyl-L-methionyl-L-arginyl-L-.alpha.-
glutamyl-L-.alpha.-glutamyl-L-leucyl-L-seryl-L-glutaminyl- (9CI)
SQL 10
MF C53 H87 N17 O17 S

Absolute stereochemistry.

PAGE 1-A



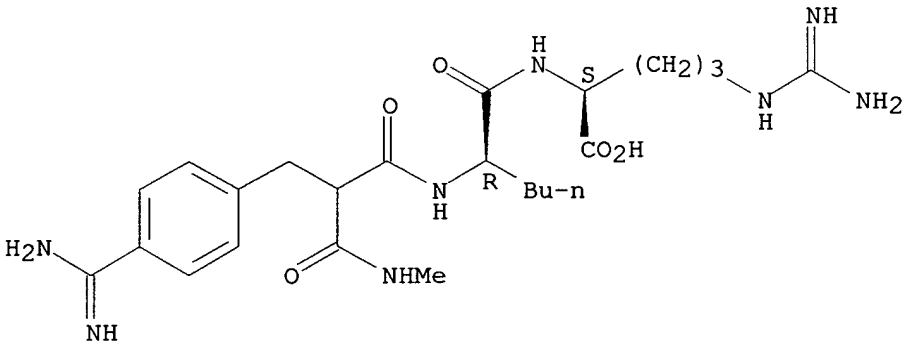
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, 2-[[4-(aminoiminomethyl)phenyl]methyl]-N-methyl-3-oxo-.beta.-alanyl-D-norleucyl- (9CI)
MF C24 H38 N8 O5
CI COM

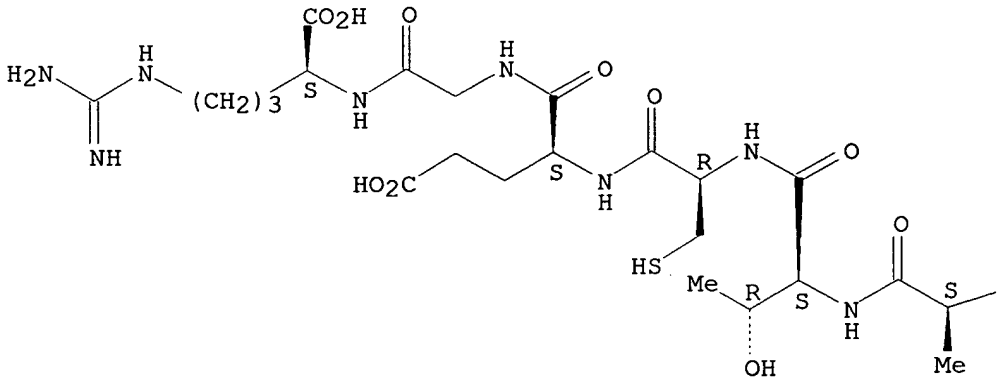
Absolute stereochemistry.

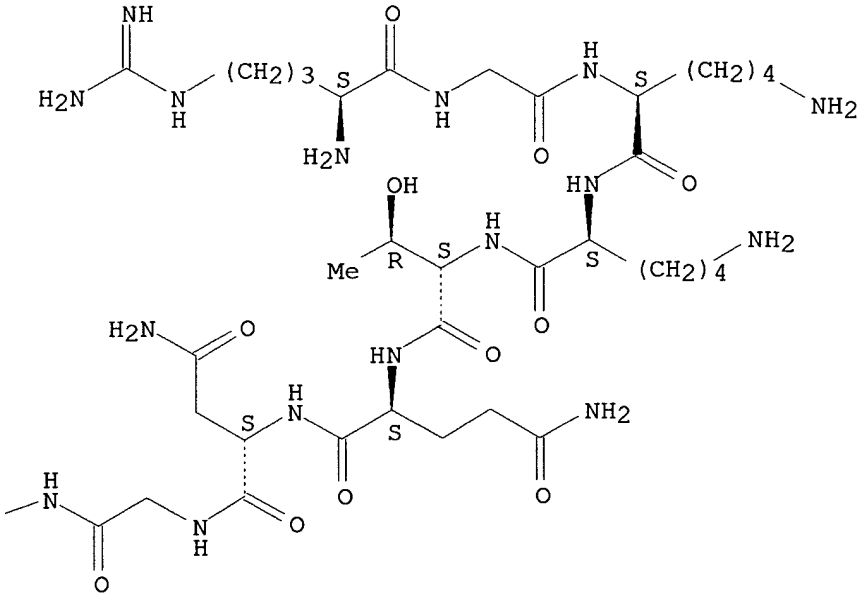


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Arginine, L-arginylglycyl-L-lysyl-L-lysyl-L-threonyl-L-glutaminyl-L-asparaginylglycyl-L-alanyl-L-threonyl-L-cysteinyl-L-.alpha.-glutamylglycyl- (9CI)
SQL 14
MF C58 H104 N24 O21 S

Absolute stereochemistry.





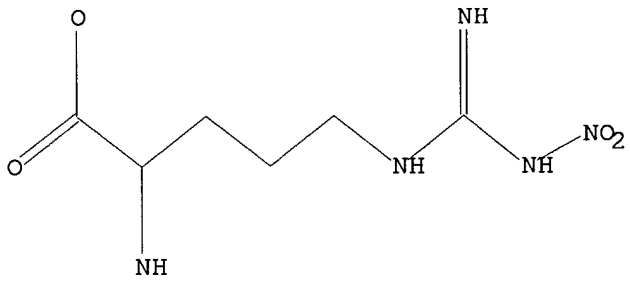
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading 09844816 search core nitro.str

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam
SAMPLE SEARCH INITIATED 06:54:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 433 TO ITERATE

100.0% PROCESSED 433 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

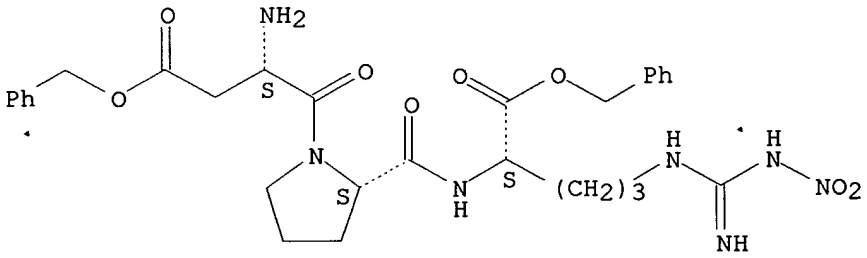
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7412 TO 9908
PROJECTED ANSWERS: 1899 TO 3261

L4 50 SEA SSS SAM L3

=> d scan

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(1-L-.alpha.-aspartyl-L-prolyl)-N5-[imino(nitroamino)methyl]-, bis(phenylmethyl) ester (9CI)
MF C29 H37 N7 O8

Absolute stereochemistry.



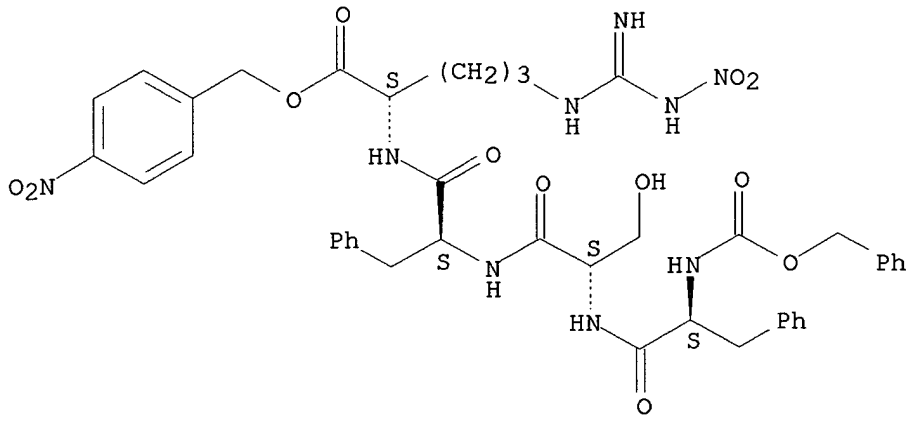
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-[N-[N-(N-carboxy-3-phenyl-L-alanyl)-L-seryl]-3-phenyl-L-alanyl]-N5-nitroamidino-, N-benzyl p-nitrobenzyl ester, L- (6CI)
SQL 4
MF C42 H47 N9 O12

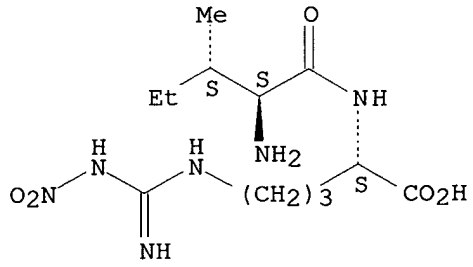
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, L-isoleucyl-N5-[imino(nitroamino)methyl]- (9CI)
MF C12 H24 N6 O5

Absolute stereochemistry.

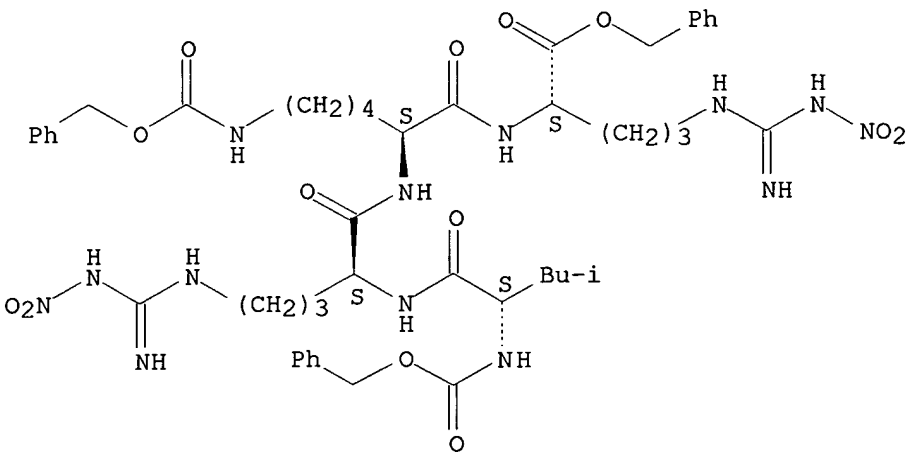


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N2-[N5-[imino(nitroamino)methyl]-N2-[N-[(phenylmethoxy)carbonyl]-L-leucyl]-L-ornithyl]-N6-[(phenylmethoxy)carbonyl]-L-lysyl]-, phenylmethyl ester (9CI)
SQL 4
MF C47 H65 N13 O13

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

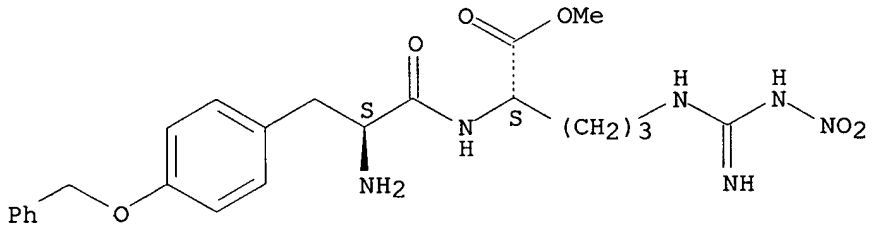


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

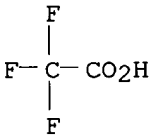
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N5-[imino(nitroamino)methyl]-N2-[O-(phenylmethyl)-L-tyrosyl]-
, methyl ester, mono(trifluoroacetate) (9CI)
MF C23 H30 N6 O6 . C2 H F3 O2

CM 1

Absolute stereochemistry.

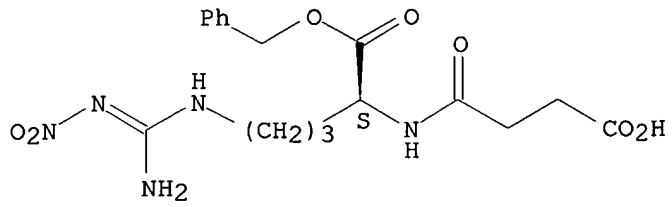


CM 2



L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(3-carboxy-1-oxopropyl)-N5-[imino(nitroamino)methyl]-,
phenylmethyl ester (9CI)
MF C17 H23 N5 O7

Absolute stereochemistry.
Double bond geometry unknown.

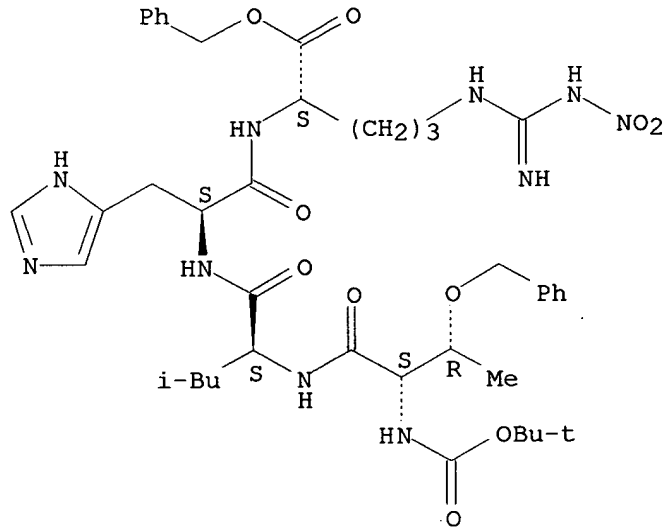


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N2-[N-[N-[N-[(1,1-dimethylethoxy)carbonyl]-O-(phenylmethyl)-L-threonyl]-L-leucyl]-L-histidyl]-N5-[imino(nitroamino)methyl]-, phenylmethyl ester (9CI)
SQL 4
MF C41 H58 N10 O10

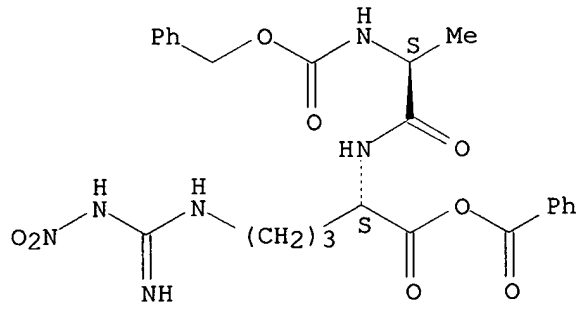
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



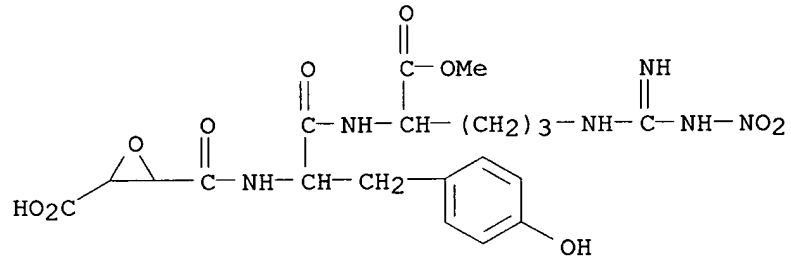
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN INDEX NAME NOT YET ASSIGNED
MF C24 H28 N6 O8

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N-[(3-carboxyoxiranyl)carbonyl]-L-tyrosyl]-N5-[imino(nitroamino)methyl]-, 1-methyl ester, (2R-trans)- (9CI)
MF C20 H26 N6 O10

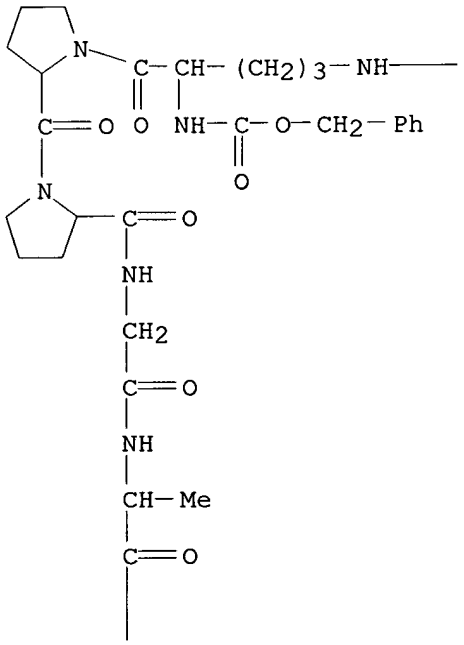


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

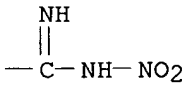
L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-[N-[1-[N-[N-[N-[1-[1-[N2-carboxy-N5-(nitroamidino)-L-ornithyl]-L-prolyl]-L-prolyl]glycyl]-L-alanyl]-L-seryl]-L-prolyl]-3-phenyl-L-alanyl]-N5-(nitroamidino)-, N-benzyl methyl ester (7CI)
SQL 9
MF C53 H75 N17 O17

RELATED SEQUENCES AVAILABLE WITH SEQLINK

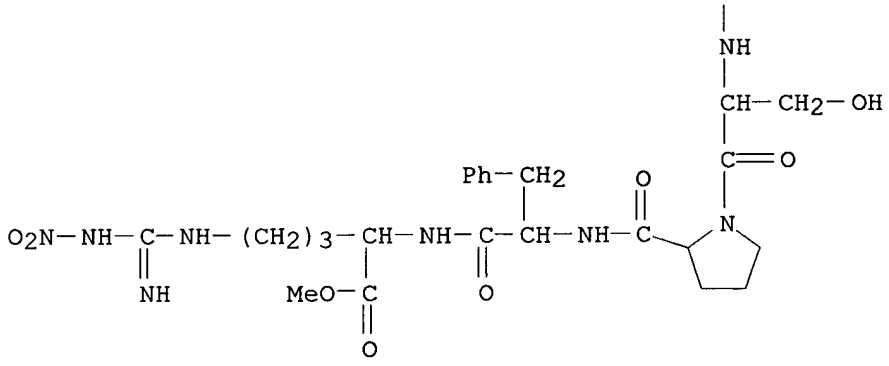
PAGE 1-A



PAGE 1-B



PAGE 2-A



L4 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N-[bis(cyclohexylamino)methylene]glycyl-D-aspartoylbis[O-(phenylmethyl)-L-seryl-(3R)-1,2,3,4-tetrahydro-3-isoquinolinecarbonyl-

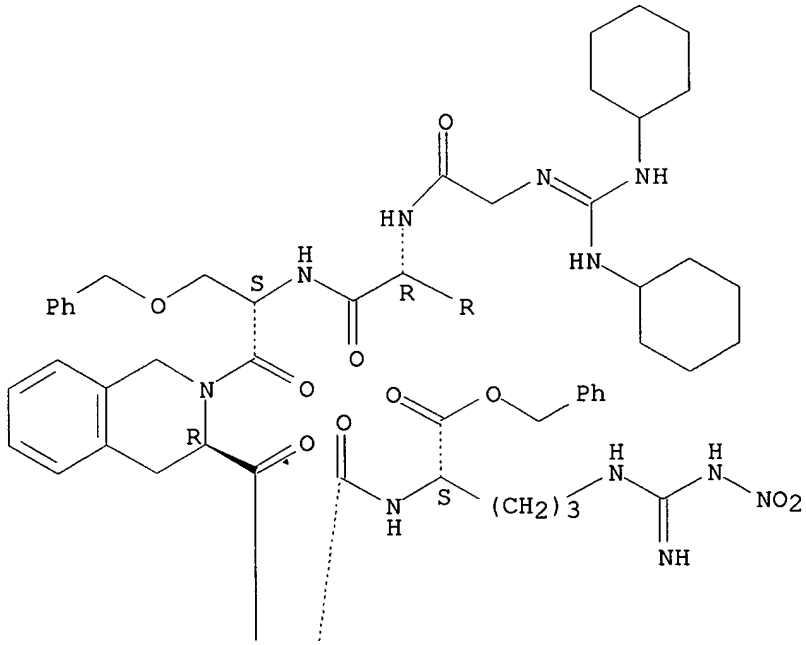
(2S,3aS,7aS)-octahydro-1H-indole-2-carbonyl-N5-[imino(nitroamino)methyl]-,

bis(phenylmethyl) ester (9CI)
SQL 10,6,4
MF C103 H132 N20 O19

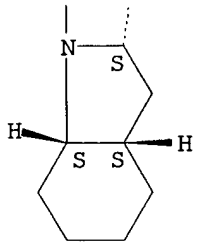
RELATED SEQUENCES AVAILABLE WITH SEQLINK

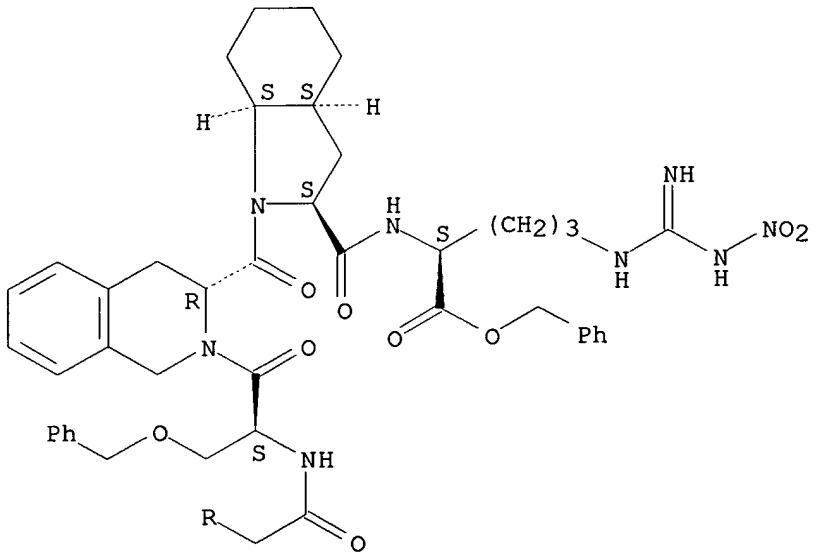
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



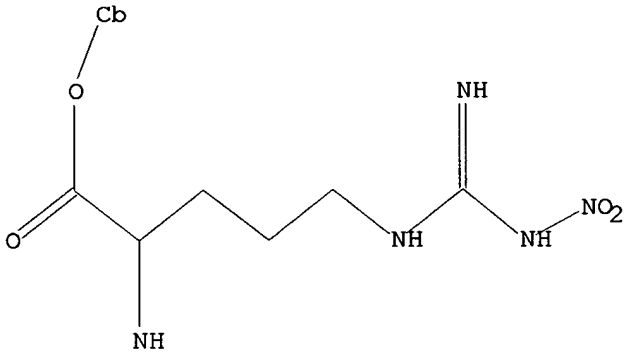


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading 09844816 search core nitro aryl.str

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l5 sss sam
SAMPLE SEARCH INITIATED 06:56:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 433 TO ITERATE

100.0% PROCESSED 433 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

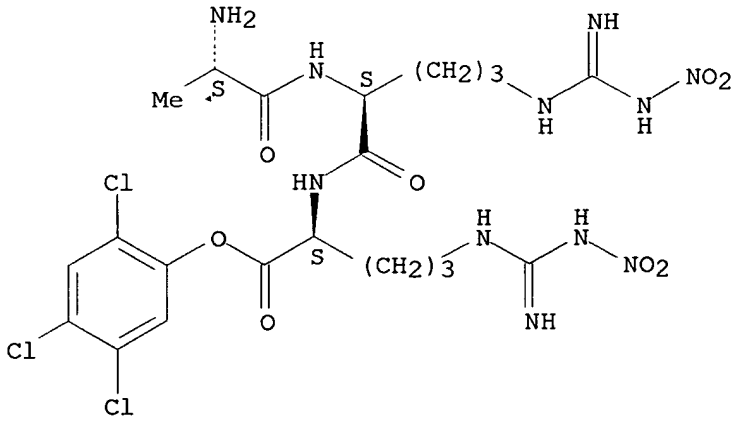
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7412 TO 9908
PROJECTED ANSWERS: 2 TO 124

L6 2 SEA SSS SAM L5

=> d scan

L6 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
MF C21 H30 Cl3 N11 O8 . Br H
CI COM

Absolute stereochemistry.

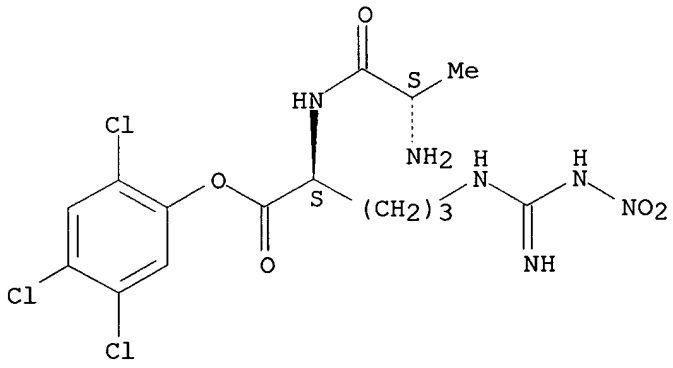


● HBr

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C15 H19 Cl3 N6 O5
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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FULL SEARCH INITIATED 07:00:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8292 TO ITERATE

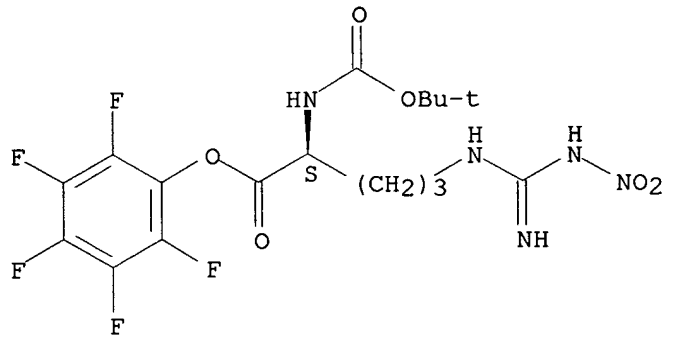
100.0% PROCESSED 8292 ITERATIONS 48 ANSWERS
SEARCH TIME: 00.00.01

L7 48 SEA SSS FUL L5

=> d scan

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
MF C17 H20 F5 N5 O6

Absolute stereochemistry.

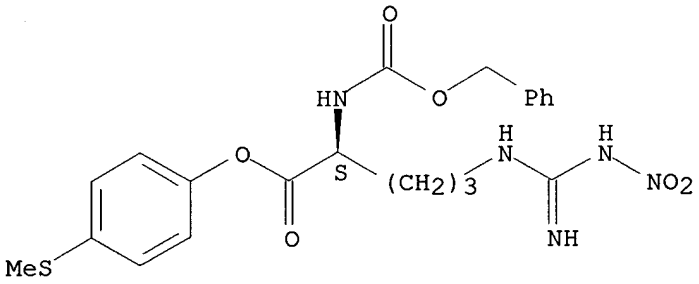


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-carboxy-N5-(nitroamidino)-, N2-benzyl p-(methylthio)phenyl ester, L- (8CI)
MF C21 H25 N5 O6 S

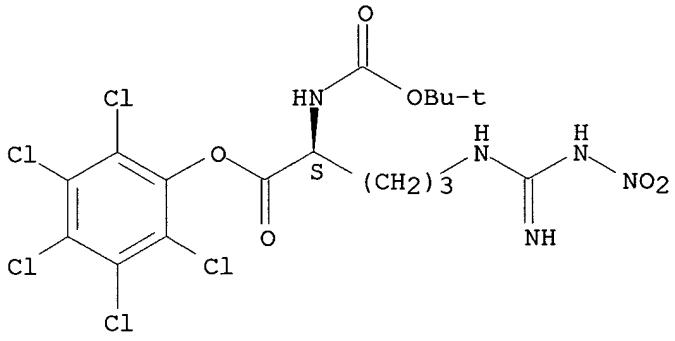
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C17 H20 Cl5 N5 O6

Absolute stereochemistry.

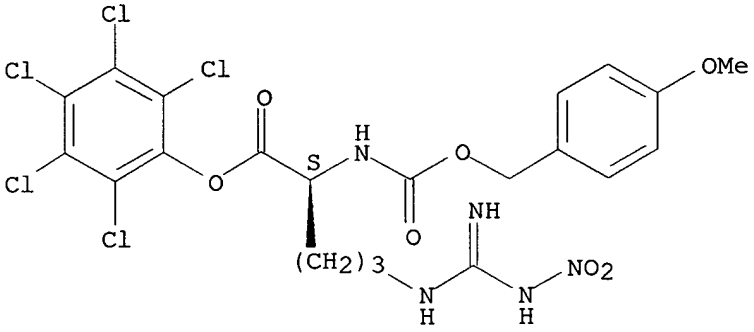


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[[(4-methoxyphenyl)methoxy]carbonyl]-, pentachlorophenyl ester (9CI)

MF C21 H20 Cl5 N5 O7

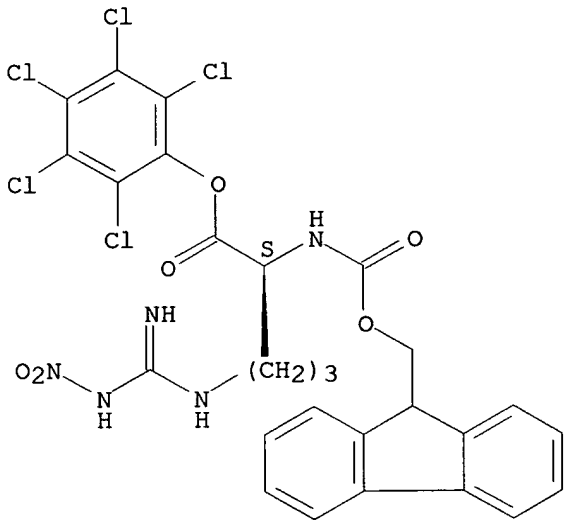
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C27 H22 Cl5 N5 O6

Absolute stereochemistry.

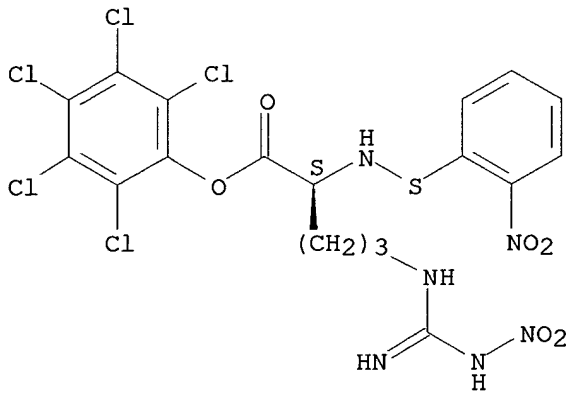


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N5-(nitroamidino)-N2-[(o-nitrophenyl)thio]-, pentachlorophenyl

ester, L- (8CI)
MF C18 H15 Cl5 N6 O6 S

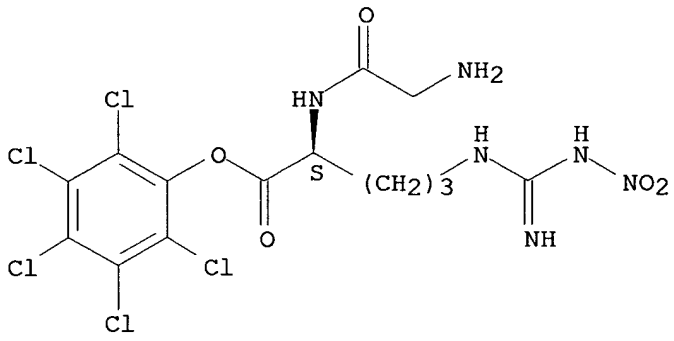
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-glycyl-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester, monohydrobromide (9CI)
MF C14 H15 Cl5 N6 O5 . Br H

Absolute stereochemistry.



● HBr

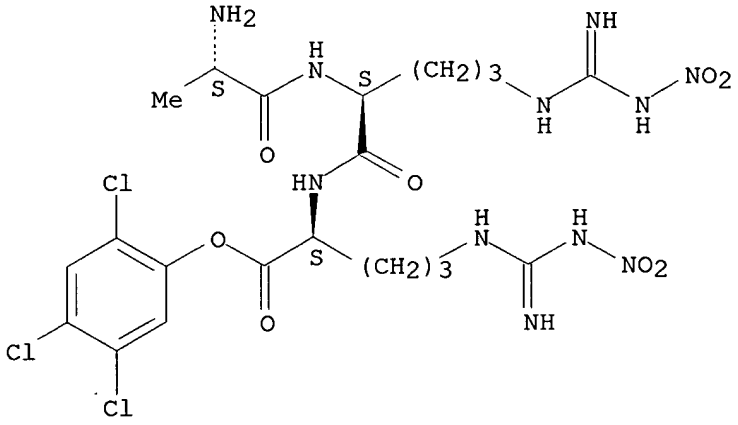
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide,
homopolymer (9CI)
MF (C21 H30 Cl3 N11 O8 . Br H)x

CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.

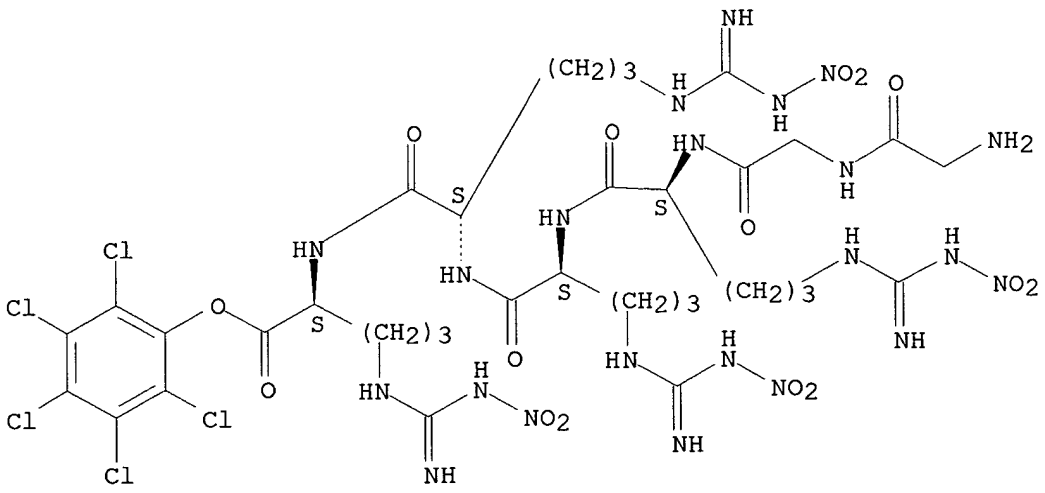


● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N2-[N2-[N2-[N2-(N-glycylglycyl)-N5-[imino(nitroamino)methyl]-
L-ornithyl]-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-
[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-,
pentachlorophenyl ester, monohydrobromide (9CI)
SQL 6
MF C34 H51 Cl5 N22 O15 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



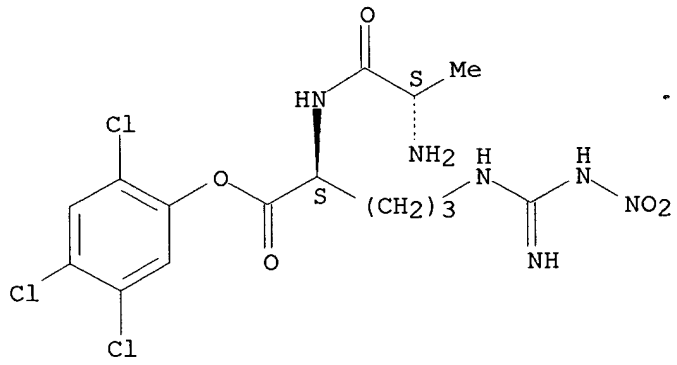
● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, mono(trifluoroacetate), homopolymer (9CI)
MF (C15 H19 Cl3 N6 O5 . C2 H F3 O2)x
CI PMS

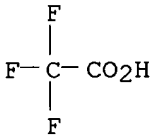
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



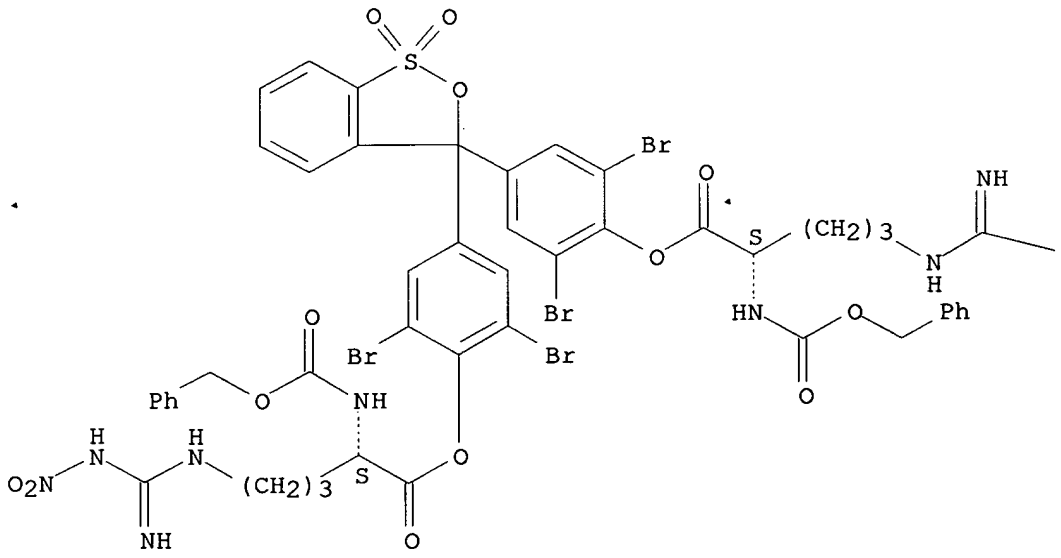
CM 2



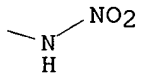
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, (1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis(2,6-dibromo-4,1-phenylene) ester (9CI)
MF C47 H44 Br4 N10 O15 S

Absolute stereochemistry.

PAGE 1-A



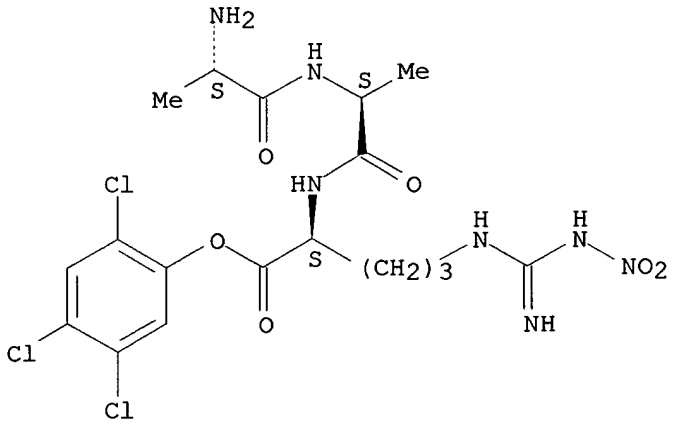
PAGE 1-B



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C18 H24 Cl3 N7 O6
CI COM

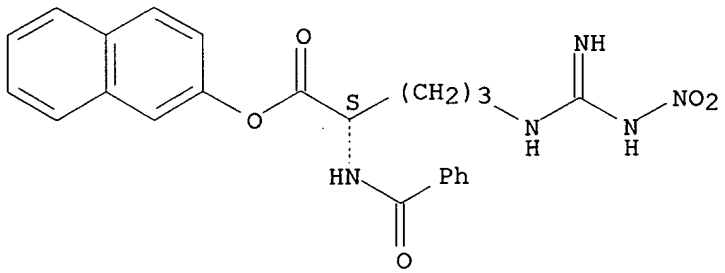
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, 2-naphthalenyl ester (9CI)
MF C23 H23 N5 O5

Absolute stereochemistry.

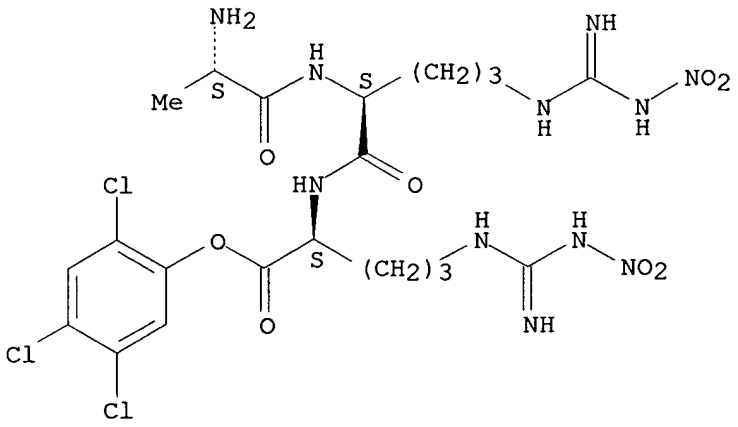


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-L-alanyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)

MF C21 H30 Cl3 N11 O8 . Br H
CI COM

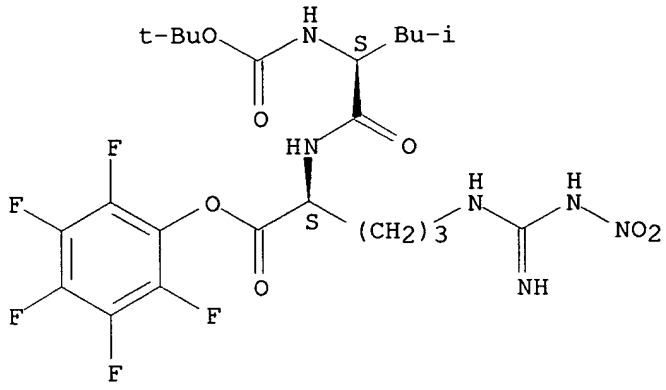
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N-[(1,1-dimethylethoxy)carbonyl]-L-leucyl]-N5-[imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
MF C23 H31 F5 N6 O7

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

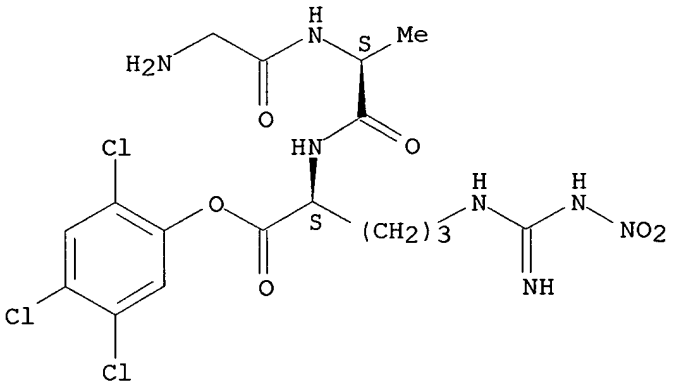
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-(N-glycyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide, homopolymer (9CI)
MF (C17 H22 Cl3 N7 O6 . Br H)x
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

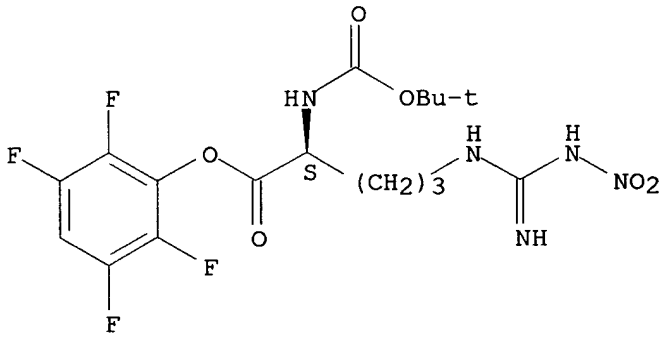
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, 2,3,5,6-tetrafluorophenyl ester (9CI)
MF C17 H21 F4 N5 O6

Absolute stereochemistry.



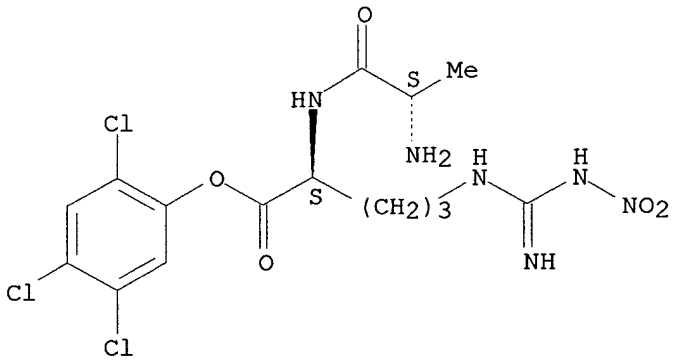
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-,

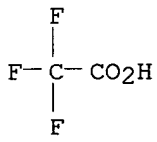
2,4,5-trichlorophenyl ester, mono(trifluoroacetate) (9CI)
MF C15 H19 Cl3 N6 O5 . C2 H F3 O2

CM 1

Absolute stereochemistry.

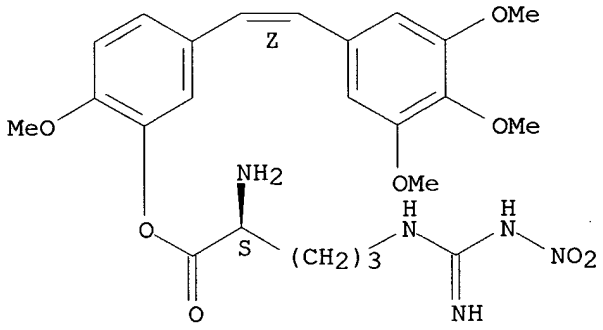


CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-, 2-methoxy-5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenyl ester (9CI)
MF C24 H31 N5 O8

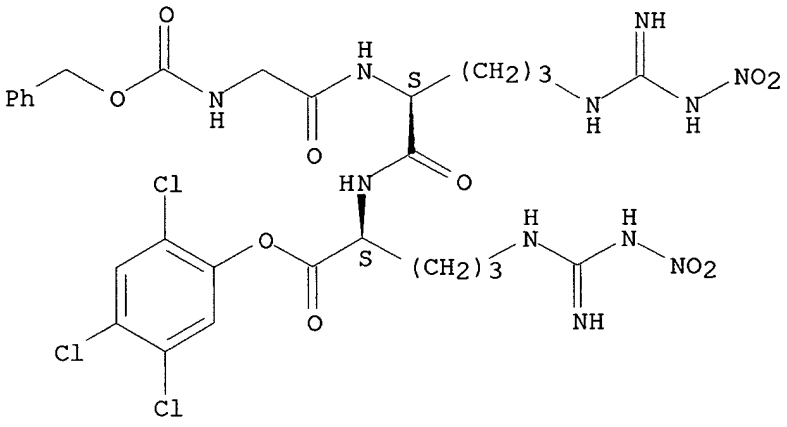
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-
N2-[N-[(phenylmethoxy)carbonyl]glycyl]-L-ornithyl]-,
2,4,5-trichlorophenyl
ester (9CI)
MF C28 H34 Cl3 N11 O10

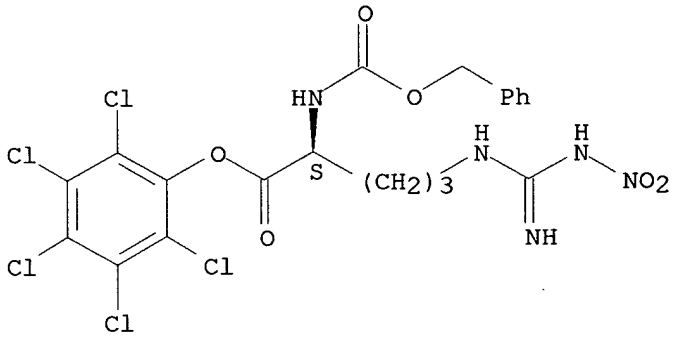
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-,
pentachlorophenyl ester (9CI)
MF C20 H18 Cl5 N5 O6

Absolute stereochemistry.



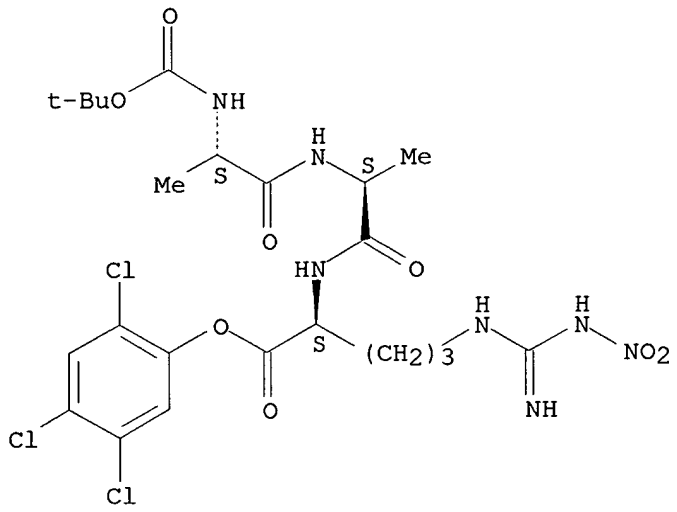
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-alanyl]-L-alanyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C23 H32 Cl3 N7 O8

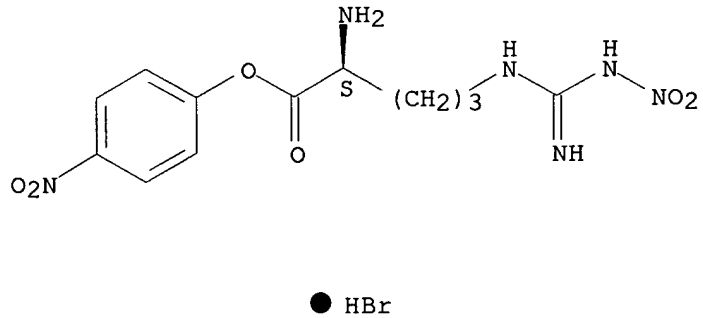
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-, 4-nitrophenyl ester, monohydrobromide (9CI)
MF C12 H16 N6 O6 . Br H

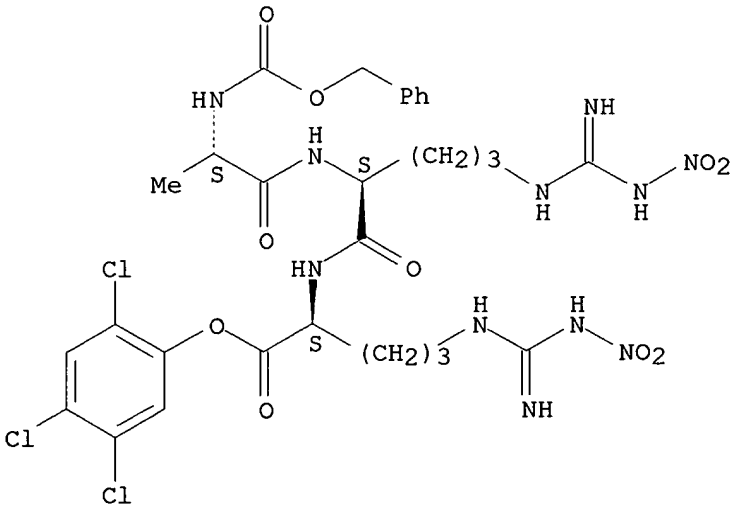
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-N2-[N-[(phenylmethoxy)carbonyl]-L-alanyl]-L-ornithyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C29 H36 Cl3 N11 O10

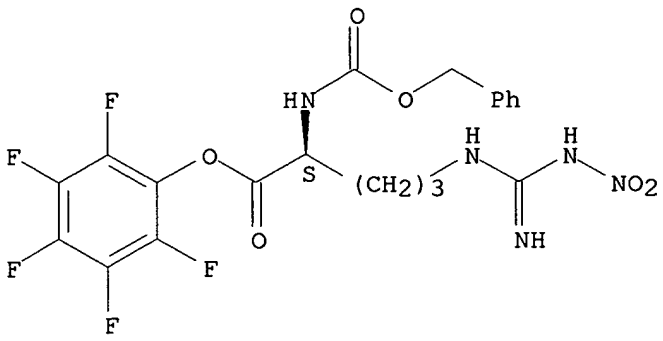
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentafluorophenyl ester (9CI)
MF C20 H18 F5 N5 O6

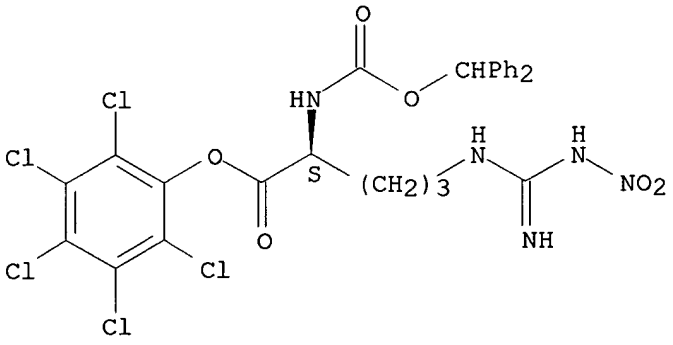
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(diphenylmethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C26 H22 Cl5 N5 O6

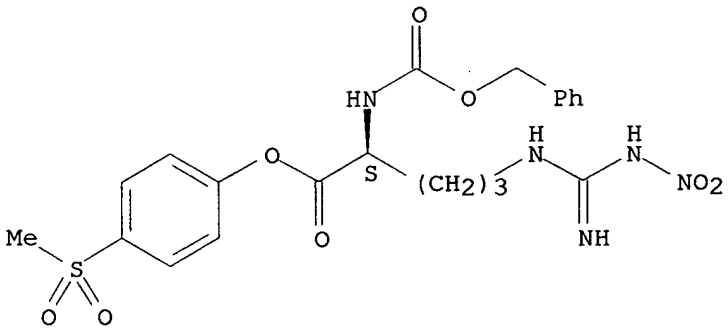
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N2-carboxy-N5-(nitroamidino)-, N2-benzyl p-(methylsulfonyl)phenyl ester, L- (8CI)
MF C21 H25 N5 O8 S

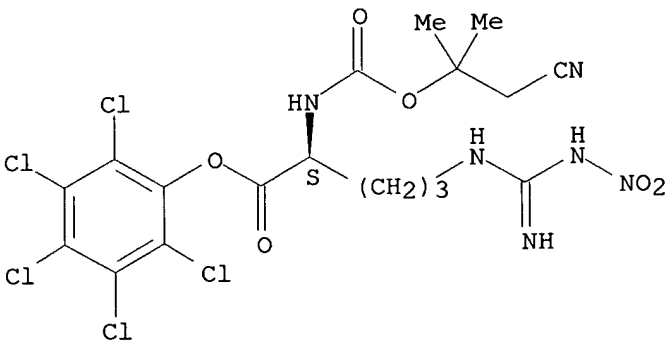
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(2-cyano-1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester (9CI)
MF C18 H19 Cl5 N6 O6

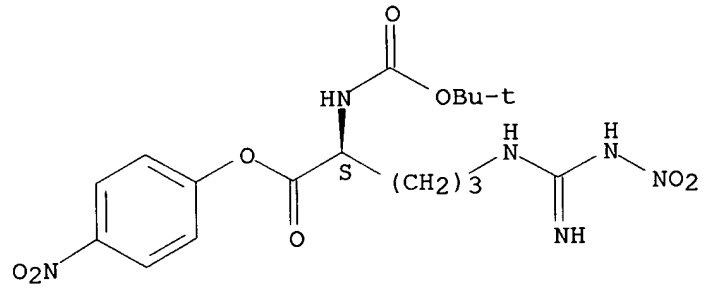
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, 4-nitrophenyl ester (9CI)
MF C17 H24 N6 O8

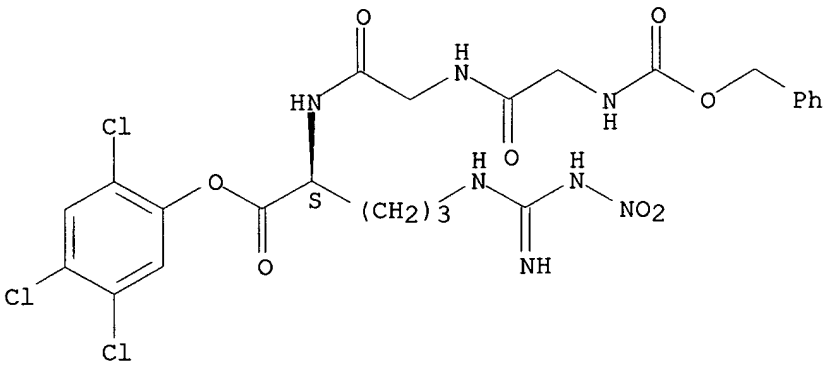
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N-[N-[(phenylmethoxy)carbonyl]glycyl]glycyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C24 H26 Cl3 N7 O8

Absolute stereochemistry.



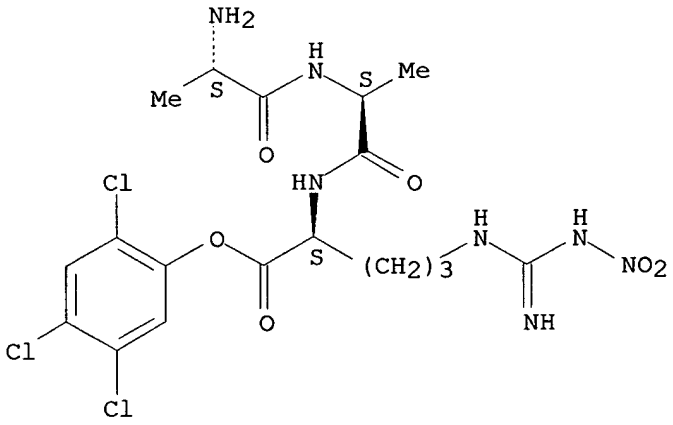
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, mono(trifluoroacetate), homopolymer (9CI)
MF (C18 H24 Cl3 N7 O6 . C2 H F3 O2)x
CI PMS

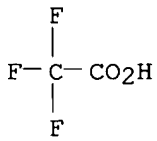
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



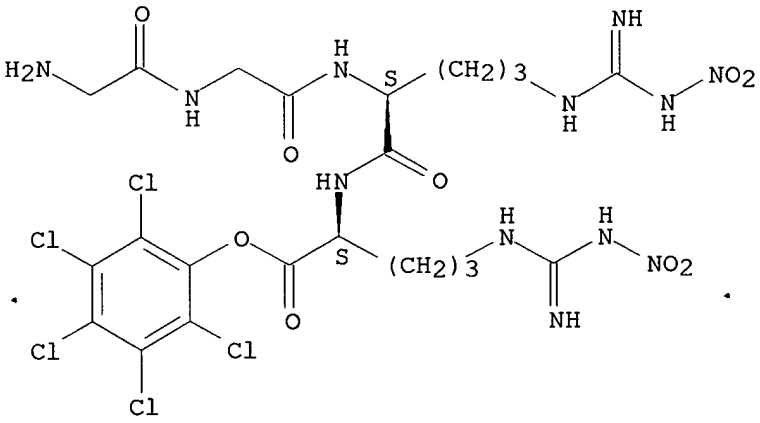
CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-(N-glycylglycyl)-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, pentachlorophenyl ester, monohydrobromide (9CI)
SQL 4
MF C22 H29 Cl5 N12 O9 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



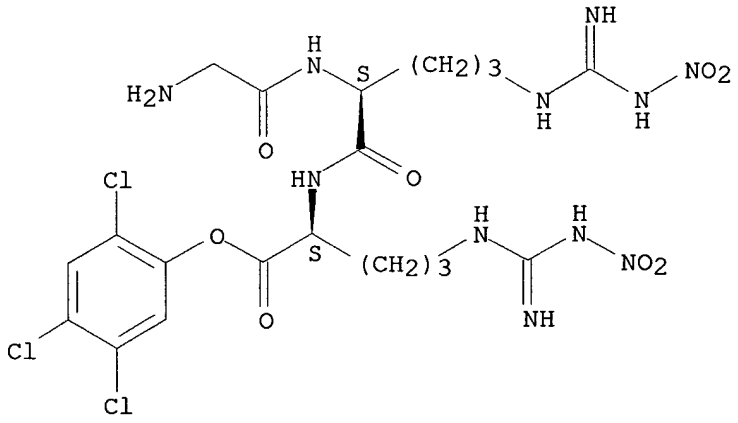
● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N2-glycyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide, homopolymer (9CI)
MF (C20 H28 Cl3 N11 O8 . Br H)x
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

Absolute stereochemistry.



● HBr

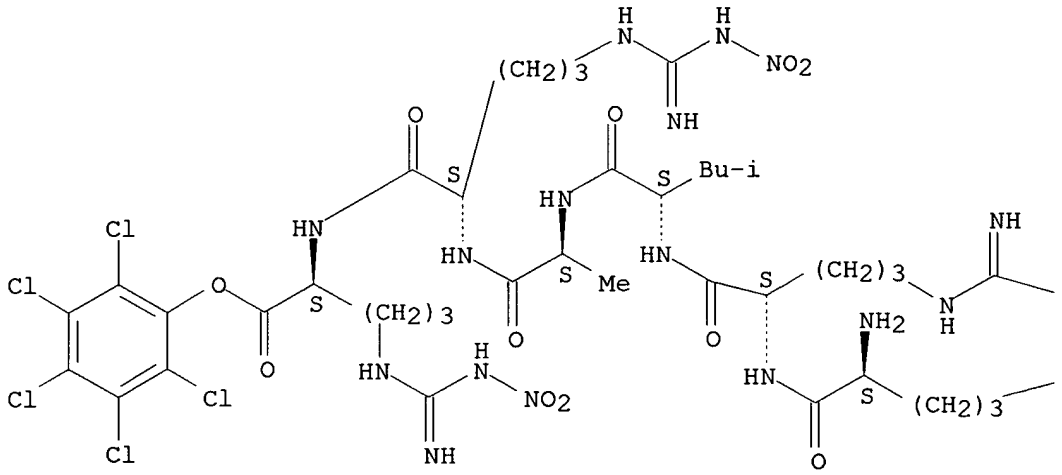
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-

N2-[N-[N-[N5-[imino(nitroamino)methyl]-N2-[N5-[imino(nitroamino)methyl]-L-
ornithyl]-L-ornithyl]-L-leucyl]-L-alanyl]-L-ornithyl]-, pentachlorophenyl
ester, monohydrobromide (9CI)
SQL 6
MF C39 H61 Cl5 N22 O15 . Br H

RELATED SEQUENCES AVAILABLE WITH SEQLINK

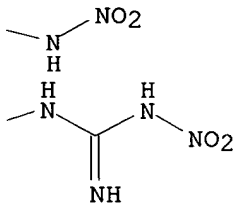
Absolute stereochemistry.

PAGE 1-A



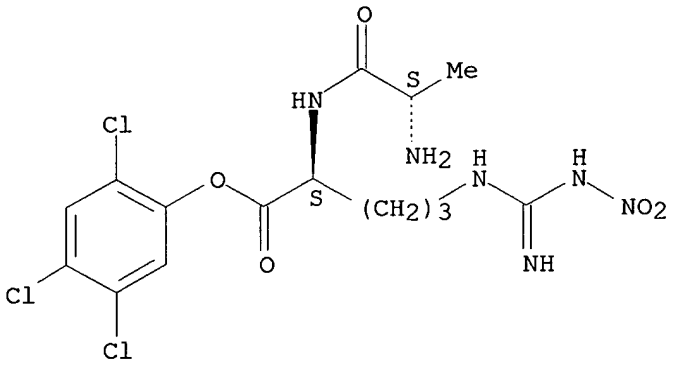
● HBr

PAGE 1-B



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-L-alanyl-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C15 H19 Cl3 N6 O5
CI COM

Absolute stereochemistry.

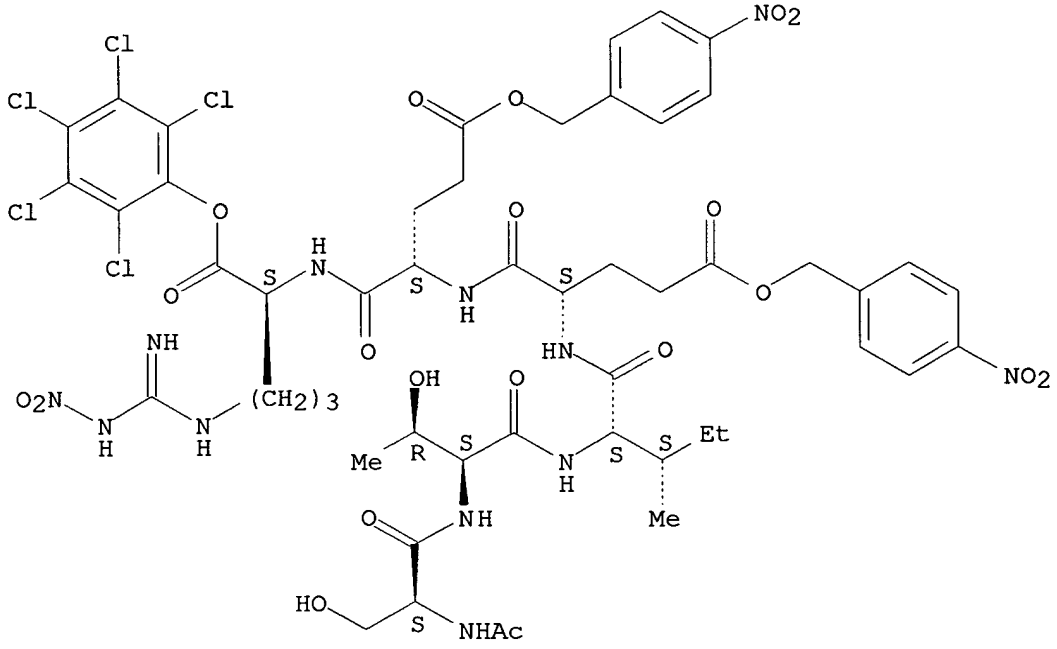


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine,
N2-[N-[N-[N-[N-(N-acetyl-L-seryl)-L-threonyl]-L-isoleucyl]-L-
.alpha.-glutamyl]-L-.alpha.-glutamyl]-N5-[imino(nitroamino)methyl]-,
5,5'-bis[(4-nitrophenyl)methyl] 1-(pentachlorophenyl) ester (9CI)
SQL 6
MF C51 H61 Cl5 N12 O20

RELATED SEQUENCES AVAILABLE WITH SEQLINK

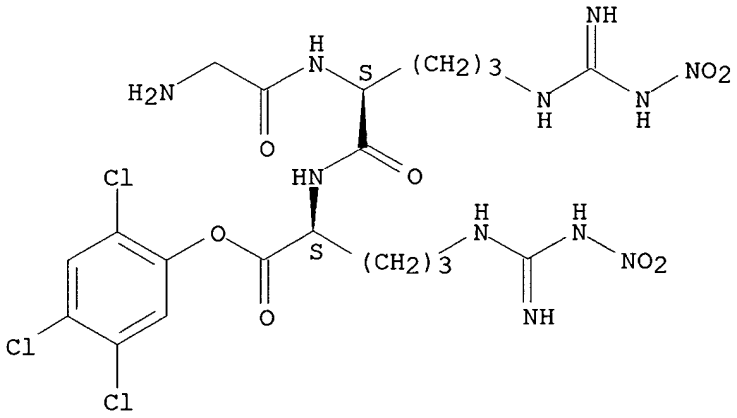
Absolute stereochemistry.



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN L-Ornithine, N2-[N2-glycyl-N5-[imino(nitroamino)methyl]-L-ornithyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
MF C20 H28 Cl3 N11 O8 . Br H
CI COM

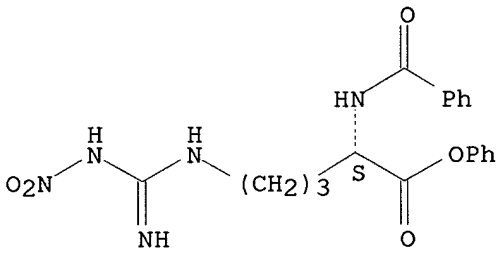
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, phenyl ester (9CI)
MF C19 H21 N5 O5

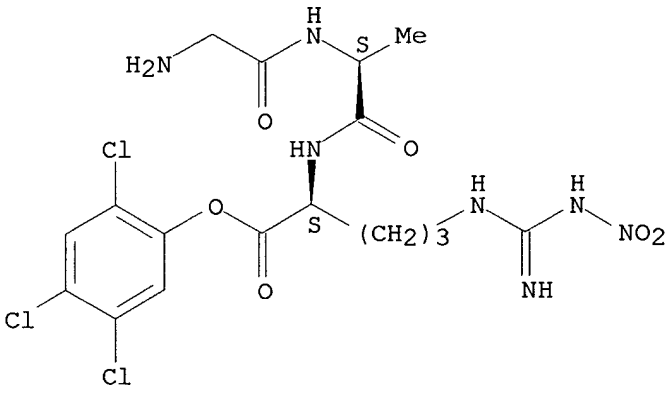
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(N-glycyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, monohydrobromide (9CI)
MF C17 H22 Cl3 N7 O6 . Br H
CI COM

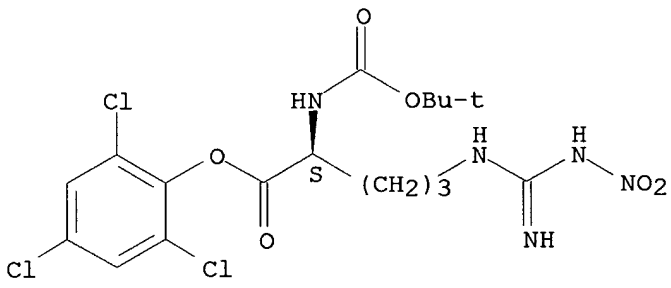
Absolute stereochemistry.



● HBr

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, 2,4,6-trichlorophenyl ester (9CI)
MF C17 H22 Cl3 N5 O6

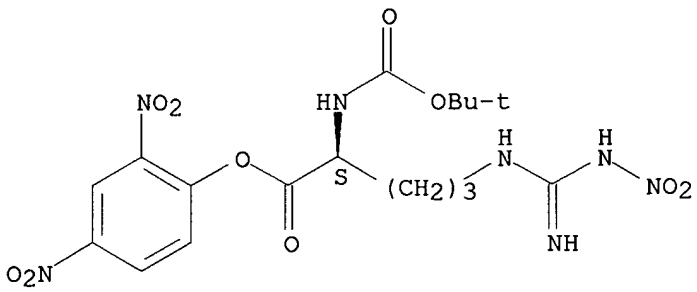
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, 2,4-dinitrophenyl ester (9CI)
MF C17 H23 N7 O10

Absolute stereochemistry.

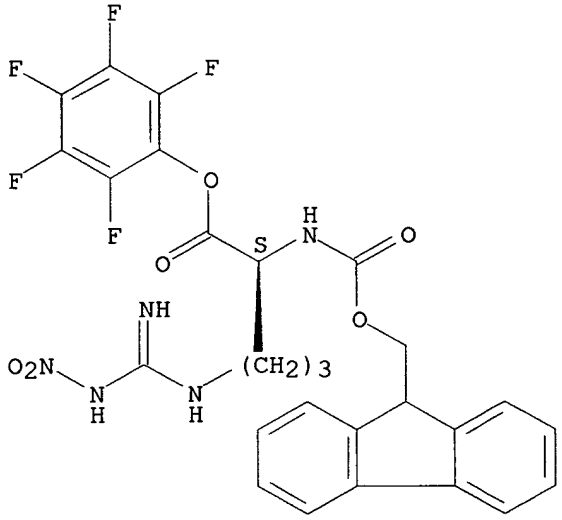


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, pentafluorophenyl ester (9CI)
MF C27 H22 F5 N5 O6

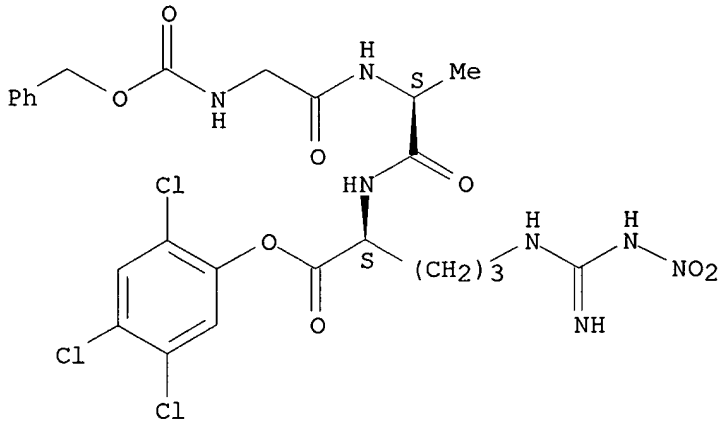
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[N-[N-[(phenylmethoxy)carbonyl]glycyl]-L-alanyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C25 H28 Cl3 N7 O8

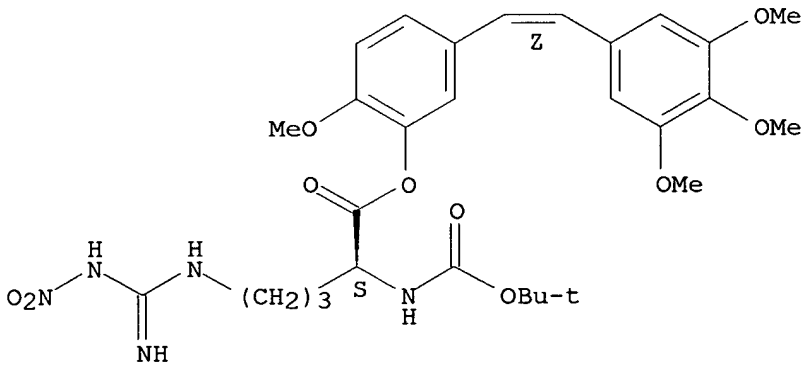
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(1,1-dimethylethoxy)carbonyl]-N5-[imino(nitroamino)methyl]-, 2-methoxy-5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenyl ester (9CI)
MF C29 H39 N5 O10

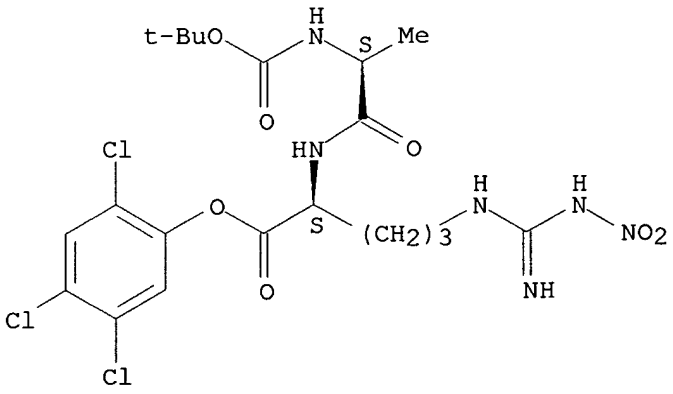
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[N-[(1,1-dimethylethoxy)carbonyl]-L-alanyl]-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester (9CI)
MF C20 H27 Cl3 N6 O7

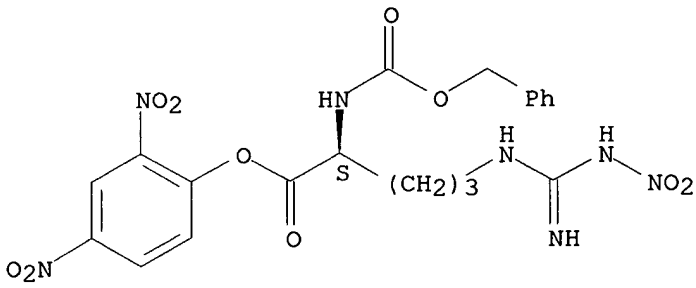
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, 2,4-dinitrophenyl ester (9CI)
MF C20 H21 N7 O10

Absolute stereochemistry.

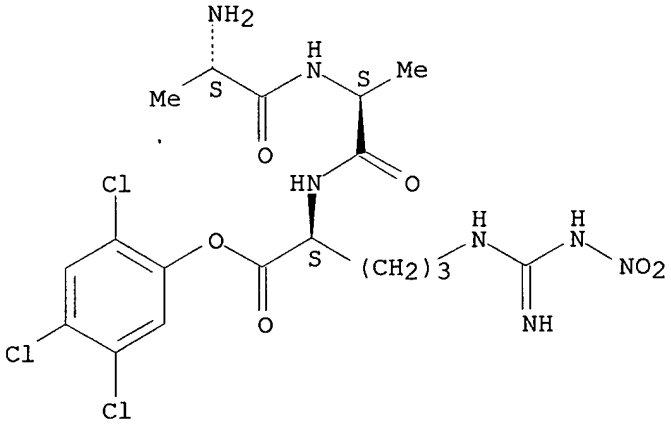


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

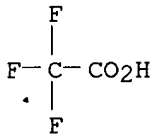
L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-(N-L-alanyl-L-alanyl)-N5-[imino(nitroamino)methyl]-, 2,4,5-trichlorophenyl ester, mono(trifluoroacetate) (9CI)
MF C18 H24 Cl3 N7 O6 . C2 H F3 O2

CM 1

Absolute stereochemistry.

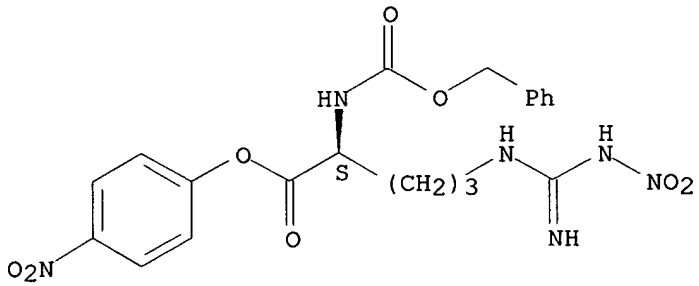


CM 2



L7 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, 4-nitrophenyl ester (9CI)
MF C20 H22 N6 O8

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 154.55 154.76

FILE 'CAPLUS' ENTERED AT 07:01:50 ON 28 APR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l7
L8 94 L7

=> trypsin
63732 TRYPSIN
469 TRYPSINS
L9 63775 TRYPSIN
(TRYPSIN OR TRYPSINS)

=> l8 and l9
L10 2 L8 AND L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI 4-Methylumbelliferyl esters as fluorogenic substrates for proteases
AN 1983:175469 CAPLUS
DN 98:175469
TI 4-Methylumbelliferyl esters as fluorogenic substrates for proteases
AU Gray, C. J.; D'Silva, C. J. S. J.; Boukouvalas, J.; Barker, S. A.
CS Dep. Chem., Univ. Birmingham, Birmingham, B15 2TT, UK
SO Enzyme and Microbial Technology (1983), 5(2), 137-42
CODEN: EMTED2; ISSN: 0141-0229
DT Journal
LA English
AB 4-Methylumbelliferyl esters of amino acid derivs. were synthesized by the carbodiimide, disulfite, and carbonate methods. Of these, the 1st method was capable of prepg. 2-naphthyl and 4-methylumbelliferyl esters of benzoylglycine, benzyloxycarbonylglycine, and benzyloxycarbonylcitrulline, but not of benzoyl-NG-nitroarginine. 2-Naphthyl benzoyl-NG-nitroarginianate was prepd. successfully with bis(2-naphthyl)sulfite. Bis(4-methylumbelliferyl)sulfite could not be prepd., but 4-methylumbelliferyl benzoyl-NG-nitroargininate was obtained by the use of

an equil. method using di-Ph sulphite in the presence of 4-methylumbelliferone. A new reagent, Ph 4-methylumbelliferyl carbonate, was synthesized and used for the prepn. of the 4-methylumbelliferyl esters of benzoylglycine, benzyloxycarbonylglycine, and benzoyl-NG-nitroarginine. The 4-methylumbelliferyl esters of benzyloxycarbonylglycine and benzyloxycarbonylcitrulline were good substrates for the assay of proteinases, including chymotrypsin (EC 3.4.21.1) and **trypsin** (EC 3.4.21.4). The disadvantages of 4-methylumbelliferyl esters were also discussed.

=> d l10 2 ti fbib abs

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI **Trypsin** inhibitors. I. Synthesis of protected peptides related to sequence 1-10 of porcine pancreatic secretory **trypsin** inhibitor II (Kazal)
AN 1976:122285 CAPLUS
DN 84:122285
TI **Trypsin** inhibitors. I. Synthesis of protected peptides related to sequence 1-10 of porcine pancreatic secretory **trypsin** inhibitor II (Kazal)
AU Tomatis, Roberto; Guggi, Augusto; Benassi, Carlo A.; Salvadori, Severio; Rocchi, Raniero
CS Ist. Chim. Farm. Tossicol., Univ. Ferrara, Ferrara, Italy
SO International Journal of Peptide & Protein Research (1976), 8(1), 65-77
CODEN: IJPPC3; ISSN: 0367-8377
DT Journal
LA English
AB Thr-Cys(CH2NHAc)-Thr-Ser-Glu(OCMe3)-Val-Ser-NHNHCO2CMe3 was acylated by the azide method with either PhCH2O2C-Glu(OCMe3)-Ala-NHNH2 or PhCH2O2C-Arg(NO2)-Glu(OCMe3)-Ala-NHNH2 to give the protected peptides corresponding to positions 2-10 and 1-10 of the proposed primary structure of porcine pancreatic secretory **trypsin** inhibitor II. The stereochem. homogeneity of the peptides was detd. after deblocking with liq. HF by digestion with aminopeptidase M followed by quant. amino acid anal.

=> d l10 1-2 it

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
IT Michaelis constant
(of proteinases)
IT 9001-01-8 9001-73-4 9001-90-5 9001-92-7 9002-04-4 9002-07-7 9004-07-3
RL: BIOL (Biological study)
(methylumbelliferyl esters as fluorogenic substrates for, prepn. of)
IT 85563-23-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with amino acid derivs.)
IT 37006-72-7P 85563-16-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use as proteinase fluorogenic substrate)

IT 42800-48-6P 85563-17-3P **85563-18-4P** 85563-19-5P
85563-20-8P 85563-21-9P **85563-22-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT 90-33-5 135-19-3, reactions 79347-46-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with amino acid derivs.)
IT 1885-14-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with methylumbelliferone)
IT 495-69-2 1138-80-3 6692-89-3 10334-95-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with naphthyl and methylumbelliferyl derivs.)

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
IT **Trypsin** inhibitor (pig pancreas secretory, II), peptide
fragments
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT 870-46-2 1115-59-9 1149-26-4 2304-98-5 2488-25-7 3496-11-5
4666-16-4 **5165-16-2** 28798-28-9 35418-25-8 52615-95-9
58651-91-5 58685-01-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(peptide coupling reactions of)
IT 6234-04-4P 58651-94-8P 58664-10-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and peptide coupling reactions of)
IT 10081-75-1P 52615-94-8P 55324-35-1P 58651-88-0P 58651-89-1P
58651-90-4P 58651-92-6P 58651-93-7P 58651-95-9P 58651-96-0P
58682-43-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT 1145-80-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with hydrazines)
IT 302-01-2, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(with peptides)

=> 85563-18-4P
L11 1 85563-18-4P

=> 85563-18-4
REGistRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

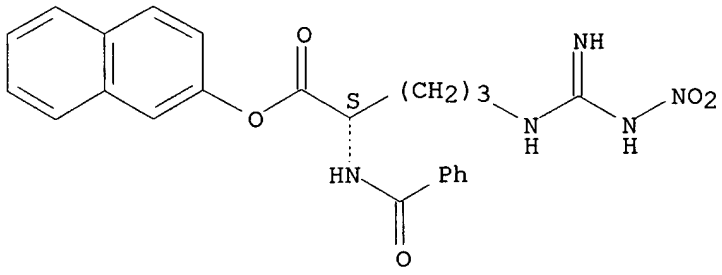
L13 1 L12

=> display hitstr
ENTER (L13), L# OR ?:113

ENTER ANSWER NUMBER OR RANGE (1):1

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
IT **85563-18-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 85563-18-4 CAPLUS
CN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, 2-naphthalenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



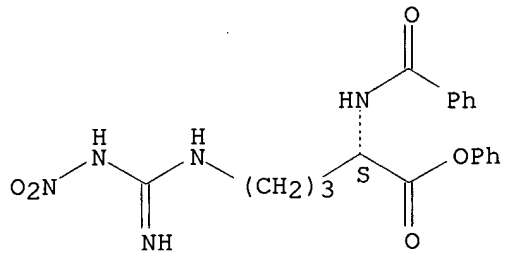
=> 85563-22-0
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L15 1 L14

=> display hitstr
ENTER (L15), L# OR ?:l15
ENTER ANSWER NUMBER OR RANGE (1):1

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
IT **85563-22-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 85563-22-0 CAPLUS
CN L-Ornithine, N2-benzoyl-N5-[imino(nitroamino)methyl]-, phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



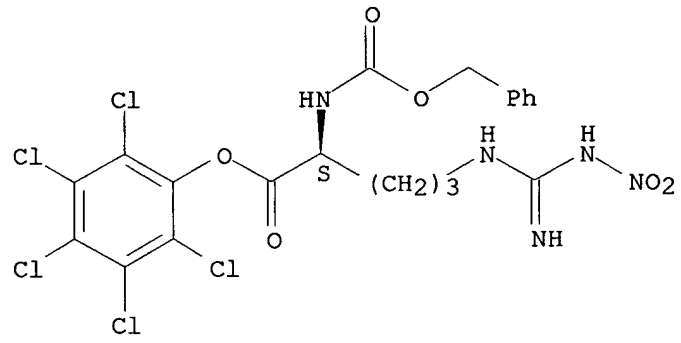
=> 5165-16-2
REGIstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L17 20 L16

=> display hitstr
ENTER (L17), L# OR ?:l17
ENTER ANSWER NUMBER OR RANGE (1):1-5

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS
IT **5165-16-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling of, with aminoanthraquinone deriv., in prepn. of neoplasm inhibitor)
RN 5165-16-2 CAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

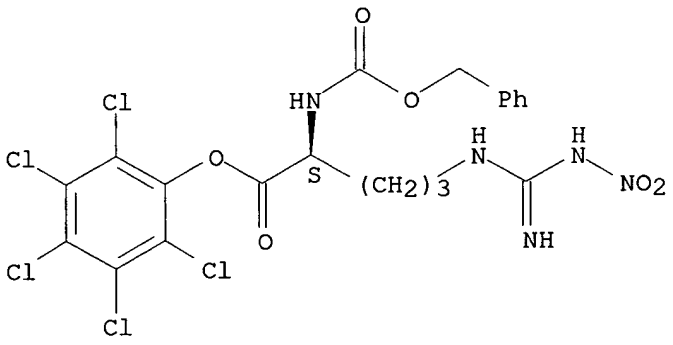
Absolute stereochemistry.



L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS
IT **5165-16-2**

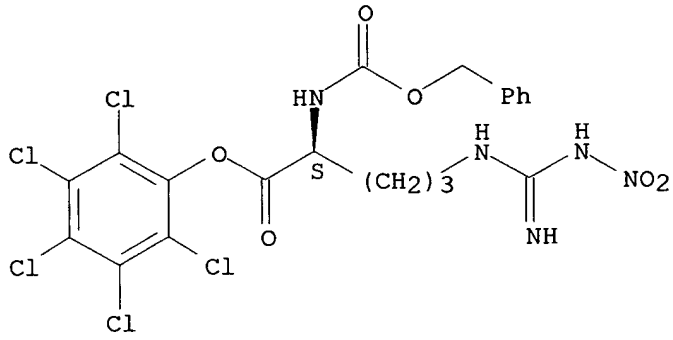
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with aminohydroxyanthraquinone)
RN 5165-16-2 CAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



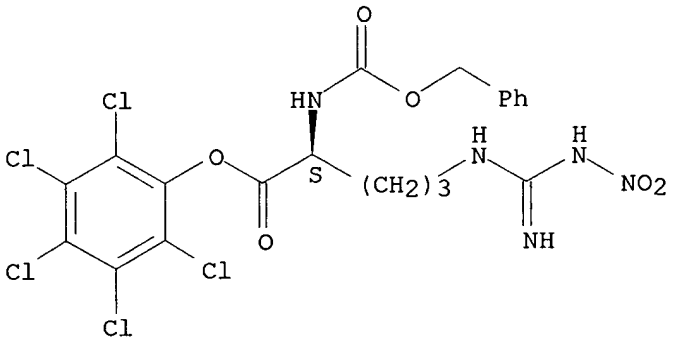
L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS
IT **5165-16-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with proline deriv.)
RN 5165-16-2 CAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



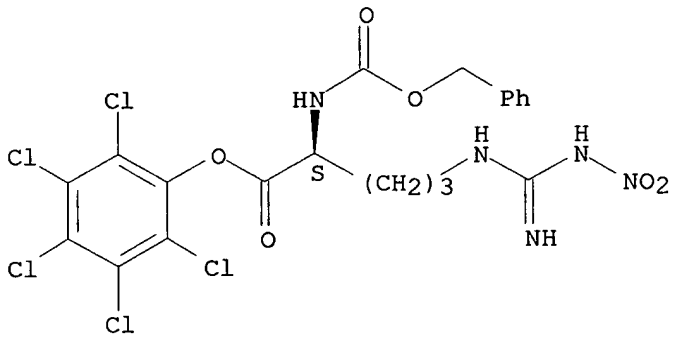
L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS
IT **5165-16-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(peptide coupling of, with proline deriv.)
RN 5165-16-2 CAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS
IT **5165-16-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and peptide coupling of)
RN 5165-16-2 CAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(phenylmethoxy)carbonyl]-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.16	188.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.30

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:07:52 ON 28 APR 2003

Connecting via Winsock to STN

```
Welcome to STN International!  Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:00:15 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 08:00:15 ON 28 APR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    13.58     189.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.30

=> d his

     (FILE 'HOME' ENTERED AT 06:51:39 ON 28 APR 2003)

     FILE 'REGISTRY' ENTERED AT 06:51:51 ON 28 APR 2003
L1             STRUCTURE UPLOADED
L2            50 SEARCH L1 SSS SAM
L3             STRUCTURE UPLOADED
L4            50 SEARCH L3 SSS SAM
L5             STRUCTURE UPLOADED
L6             2 SEARCH L5 SSS SAM
L7            48 SEARCH L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:01:50 ON 28 APR 2003
L8            94 L7
L9         63775 TRYPSIN
L10            2 L8 AND L9
L11            1 85563-18-4P
                 S 85563-18-4/REG#

     FILE 'REGISTRY' ENTERED AT 07:03:49 ON 28 APR 2003
L12            1 S 85563-18-4/RN

     FILE 'CAPLUS' ENTERED AT 07:03:49 ON 28 APR 2003
L13            1 S L12
                 S 85563-22-0/REG#

     FILE 'REGISTRY' ENTERED AT 07:05:32 ON 28 APR 2003
L14            1 S 85563-22-0/RN

     FILE 'CAPLUS' ENTERED AT 07:05:32 ON 28 APR 2003
L15            1 S L14
                 S 5165-16-2/REG#

     FILE 'REGISTRY' ENTERED AT 07:06:24 ON 28 APR 2003
L16            1 S 5165-16-2/RN

     FILE 'CAPLUS' ENTERED AT 07:06:24 ON 28 APR 2003
L17           20 S L16
```

```
=> save temp l8 trypsinh/a
ANSWER SET L8 HAS BEEN SAVED AS 'TRYPSINH/A'

=> save temp all restrsrch/l
L# LIST L1-L17 HAS BEEN SAVED AS 'RESTRSRCH/L'

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   14.41     189.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -1.30

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:01:43 ON 28 APR 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Apr 08   "Ask CAS" for self-help around the clock
 NEWS  3  Jun 03   New e-mail delivery for search results now available
 NEWS  4  Aug 08   PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS  5  Aug 19   Aquatic Toxicity Information Retrieval (AQUIRE)
                   now available on STN
 NEWS  6  Aug 26   Sequence searching in REGISTRY enhanced
 NEWS  7  Sep 03   JAPIO has been reloaded and enhanced
 NEWS  8  Sep 16   Experimental properties added to the REGISTRY file
 NEWS  9  Sep 16   CA Section Thesaurus available in CAPLUS and CA
 NEWS 10  Oct 01   CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 11  Oct 24   BEILSTEIN adds new search fields
 NEWS 12  Oct 24   Nutraceuticals International (NUTRACEUT) now available on
STN
 NEWS 13  Nov 18   DKILIT has been renamed APOLLIT
 NEWS 14  Nov 25   More calculated properties added to REGISTRY
 NEWS 15  Dec 04   CSA files on STN
 NEWS 16  Dec 17   PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 17  Dec 17   TOXCENTER enhanced with additional content
 NEWS 18  Dec 17   Adis Clinical Trials Insight now available on STN
 NEWS 19  Jan 29   Simultaneous left and right truncation added to COMPENDEX,
                   ENERGY, INSPEC
 NEWS 20  Feb 13   CANCERLIT is no longer being updated
 NEWS 21  Feb 24   METADEX enhancements
 NEWS 22  Feb 24   PCTGEN now available on STN
 NEWS 23  Feb 24   TEMA now available on STN
```

```
 NEWS 24  Feb 26  NTIS now allows simultaneous left and right truncation
 NEWS 25  Feb 26  PCTFULL now contains images
 NEWS 26  Mar 04  SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27  Mar 19  APOLLIT offering free connect time in April 2003
 NEWS 28  Mar 20  EVENTLINE will be removed from STN
 NEWS 29  Mar 24  PATDPAFULL now available on STN
 NEWS 30  Mar 24  Additional information for trade-named substances without
                  structures available in REGISTRY
 NEWS 31  Apr 11  Display formats in DGENE enhanced
 NEWS 32  Apr 14  MEDLINE Reload
 NEWS 33  Apr 17  Polymer searching in REGISTRY enhanced
 NEWS 34  Apr 21  Indexing from 1947 to 1956 being added to records in
CA/CAPLUS
 NEWS 35  Apr 21  New current-awareness alert (SDI) frequency in
                  WPIDS/WPINDEX/WPIX

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *



FILE 'HOME' ENTERED AT 09:58:10 ON 28 APR 2003

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 09:58:43 ON 28 APR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   25 APR 2003  HIGHEST RN 505904-68-7
DICTIONARY FILE UPDATES:  25 APR 2003  HIGHEST RN 505904-68-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003
```

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

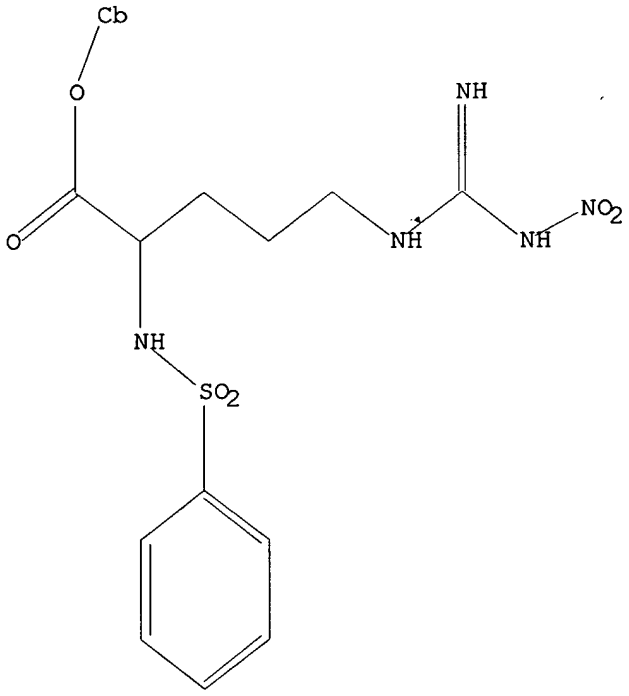
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09844816 search core nitro aryl sulfonamide.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 09:59:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 146 TO 694
PROJECTED ANSWERS: 0 TO 0

```
L2            0 SEA SSS SAM L1

=> search l1 sss full
FULL SEARCH INITIATED 09:59:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     337 TO ITERATE

100.0% PROCESSED     337 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

=>
Uploading 09844816 search core nitro aryl sulfonamide broder.str

L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4               STR
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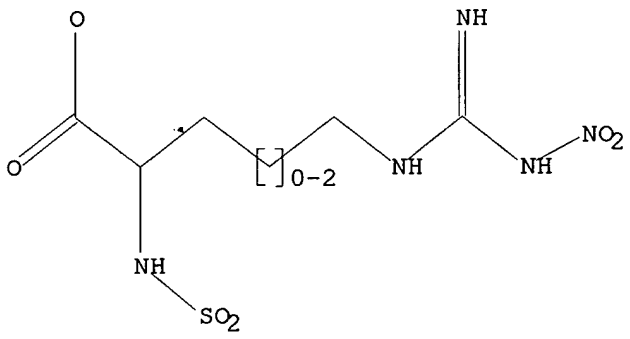



```
Structure attributes must be viewed using STN Express query preparation.


=> search l4 sss sam
SAMPLE SEARCH INITIATED 10:03:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      21 TO ITERATE

100.0% PROCESSED      21 ITERATIONS                                  2 ANSWERS
SEARCH TIME: 00.00.01

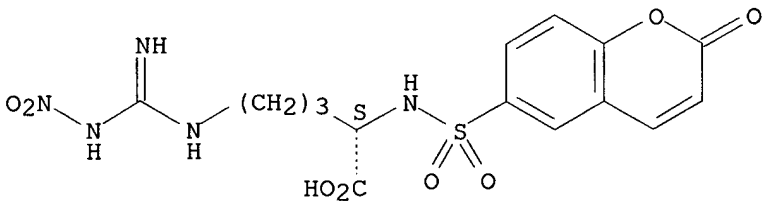
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          146 TO      694
PROJECTED ANSWERS:               2 TO      124

L5            2 SEA SSS SAM L4

=> d scan

L5   2 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(2-oxo-2H-1-benzopyran-6-
     yl)sulfonyl]-, monohydrofluoride (9CI)
MF   C15 H17 N5 O8 S . F H
```

Absolute stereochemistry.

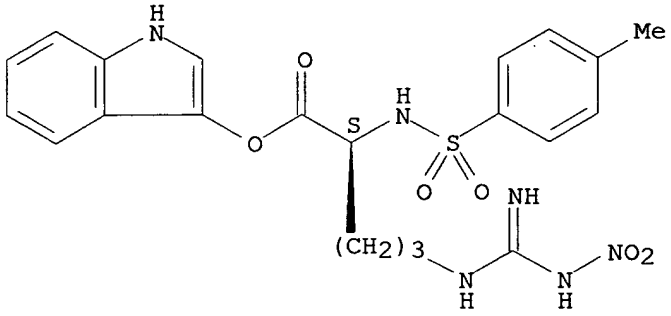


● HF

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L5 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 1H-indol-3-yl ester (9CI)
MF C21 H24 N6 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l4 sss full
FULL SEARCH INITIATED 10:04:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 342 TO ITERATE

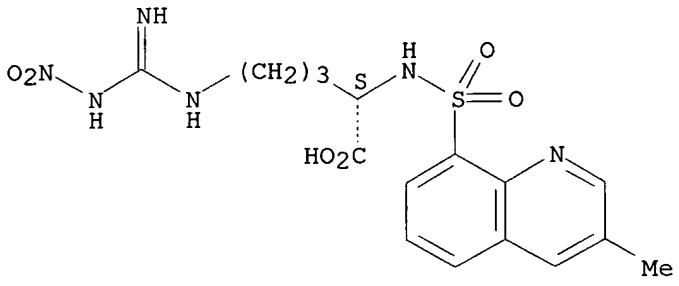
100.0% PROCESSED 342 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

L6 13 SEA SSS FUL L4

=> d scan

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(3-methyl-8-quinolinyl)sulfonyl]- (9CI)
MF C16 H20 N6 O6 S

Absolute stereochemistry. Rotation (+).

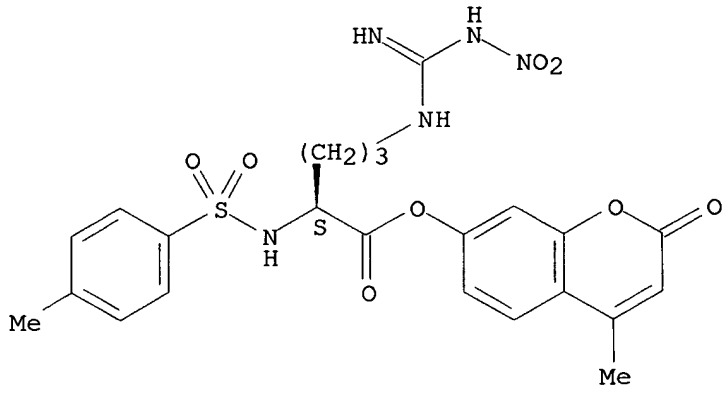


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):14

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI)
MF C23 H25 N5 O8 S

Absolute stereochemistry.

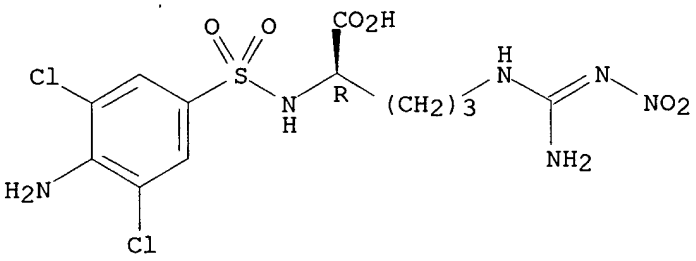


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN D-Ornithine, N2-[(4-amino-3,5-dichlorophenyl)sulfonyl]-N5-[imino(nitroamino)methyl]- (9CI)
MF C12 H16 Cl2 N6 O6 S

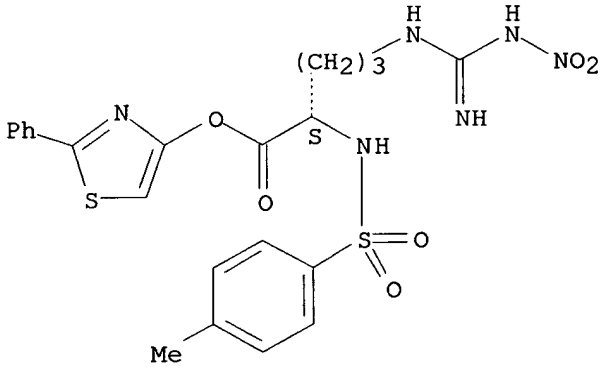
Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 2-phenyl-4-thiazolyl ester (9CI)
MF C22 H24 N6 O6 S2

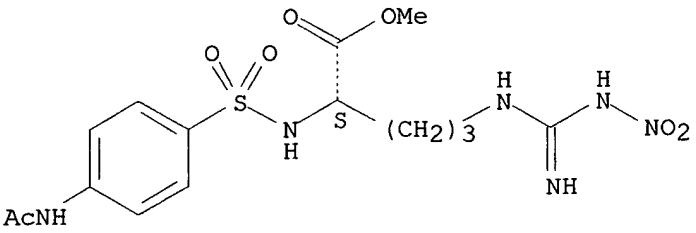
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[[4-(acetylamino)phenyl]sulfonyl]-N5-[imino(nitroamino)methyl]-, methyl ester (9CI)
MF C15 H22 N6 O7 S

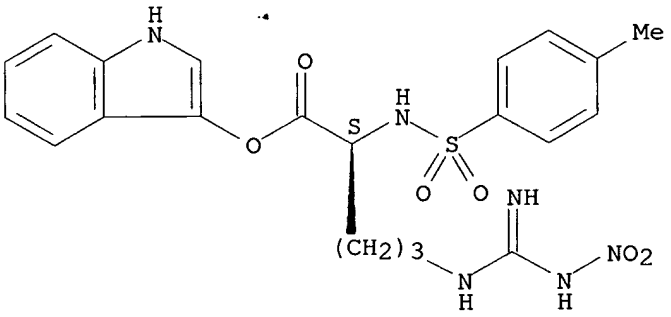
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

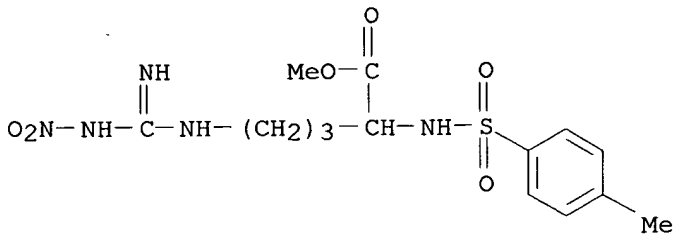
L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 1H-indol-3-yl ester (9CI)
MF C21 H24 N6 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

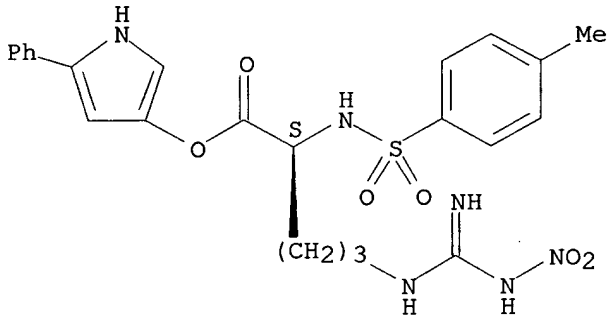
L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Ornithine, N5-(nitroamidino)-N2-(p-tolylsulfonyl)-, methyl ester (7CI)
MF C14 H21 N5 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-, 5-phenyl-1H-pyrrol-3-yl ester (9CI)
MF C23 H26 N6 O6 S

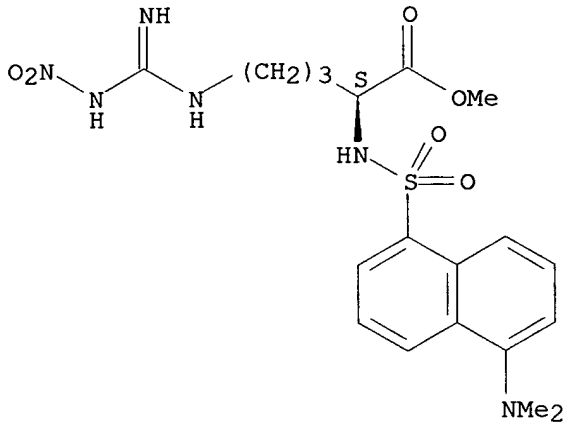
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[[5-(dimethylamino)-1-naphthalenyl]sulfonyl]-N5-[imino(nitroamino)methyl]-, methyl ester (9CI)
MF C19 H26 N6 O6 S

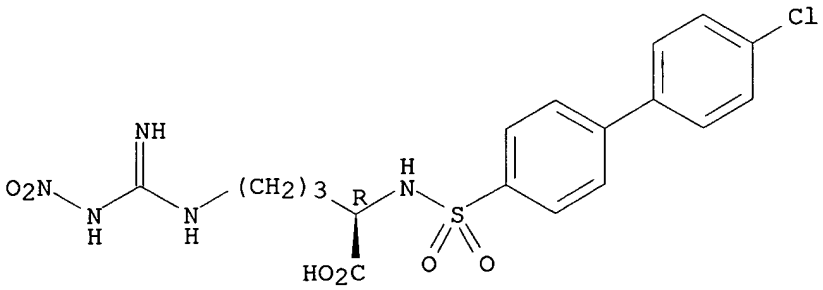
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Ornithine, N2-[(4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-N5-[imino(nitroamino)methyl]- (9CI)
MF C18 H20 Cl N5 O6 S

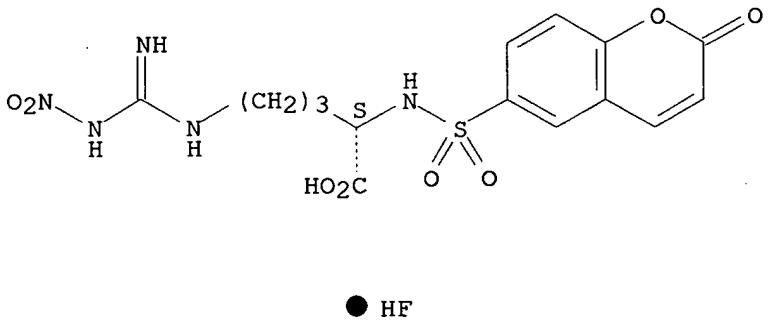
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-, monohydrofluoride (9CI)
MF C15 H17 N5 O8 S . F H

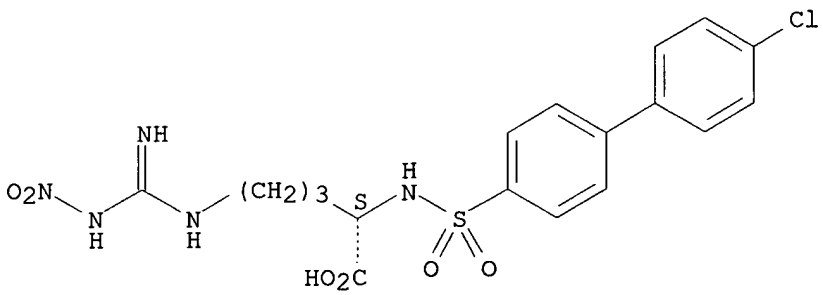
Absolute stereochemistry.



● HF

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N2-[(4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-N5-[imino(nitroamino)methyl]- (9CI)
MF C18 H20 Cl N5 O6 S

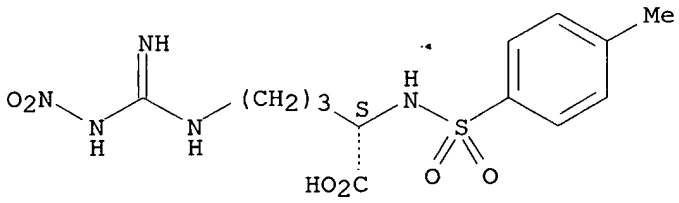
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 13 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Ornithine, N5-[imino(nitroamino)methyl]-N2-[(4-methylphenyl)sulfonyl]-(9CI)
MF C13 H19 N5 O6 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	299.50	299.71

FILE 'CAPLUS' ENTERED AT 10:04:39 ON 28 APR 2003
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FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l6
L7 13 L6

=> trrypsin?
L8 1 TRRYPSIN?

=> trypsin?
L9 67042 TRYPSIN?

=> l7 and l8
L10 0 L7 AND L8

=> d l7 1-13 ti

L7 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor

L7 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating agent

L7 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors

L7 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives

L7 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Selective cleavage of protecting groups in arginine

L7 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of amino acid derivatives as neuropeptide Y antagonists.

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe

L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI A sensitive determination of trypsin and its inhibitor with a new substrate, tosyl-L-arginyl-L-phenylalanine

L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI N2-Coumarinsulfonylargininеamides

L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI N.alpha.-Tosylarginine derivatives

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a chloromethyl ketone derivative of arginine

L7 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Esters of N.alpha.-arylsulfonyl amino acids

=> d l7 1-13 ti fbib abs

L7 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor
AN 2001:864746 CAPLUS
DN 135:371994
TI Preparation of arginine derivatives for assay of trypsin urinary inhibitor
IN Corey, Paul F.; Felman, Steven W.; Rehm, Gary E.; Pugia, Michael J.
PA Bayer Corporation, USA
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1157984	A2	20011128	EP 2001-110138	20010504
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			US 2000-203999PP	20000515
CA 2334827	AA	20011115	CA 2001-2334827	20010209
			US 2000-203999PP	20000515
NZ 509863	A	20020927	NZ 2001-509863	20010212
			US 2000-203999PP	20000515
US 2002004219	A1	20020110	US 2001-844816	20010430
			US 2000-203999PP	20000515
NO 2001002307	A	20011116	NO 2001-2307	20010510
			US 2000-203999PP	20000515
JP 2002069055	A2	20020308	JP 2001-139608	20010510
			US 2000-203999PP	20000515

OS MARPAT 135:371994
AB Arginine derivs. R1-L-Arg(R2)-OR3 (R1 and R2 are protective groups, R3 is aryl) were prepd. as trypsin substrates in which trypsin cleaves the O-C single bond to liberate R3-OH. A diagnostic device comprising the arginine derivs. is used to detect levels of urinary trypsin inhibitor (UTI) in a biol. sample. Thus, 3-(N.alpha.-tosyl-N.gamma.-nitro-L-arginyloxy)-5-phenylpyrrole was prepd. by esterification reaction and shown to be active with trypsin enzyme, allowing a change in decode signal of more than 50 % when trypsin was substantially inhibited by the trypsin inhibitor.

L7 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating

agent
AN 2001:850805 CAPLUS
DN 135:368535
TI Urinary trypsin inhibitor assay containing a polycarboxylic chelating agent
IN Rehm, Gary B.; Pugia, Michael J.; Corey, Paul F.
PA Bayer Corporation, USA
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1156121	A2	20011121	EP 2001-110137	20010504
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			US 2000-204032PP	20000515
CA 2334321	AA	20011115	CA 2001-2334321	20010206
			US 2000-204032PP	20000515
AU 2001026506	A5	20020725	AU 2001-26506	20010313
			US 2000-204032PP	20000515
US 2001055816	A1	20011227	US 2001-844815	20010430
			US 2000-204032PP	20000515
NO 2001002262	A	20011116	NO 2001-2262	20010508
			US 2000-204032PP	20000515
JP 2002014096	A2	20020118	JP 2001-142654	20010514
			US 2000-204032PP	20000515

AB Disclosed is an assay for detg. the presence and concn. of trypsin inhibitor in urine samples. The assay reagents, which may be used either in the liq. or dry states, include trypsin, a trypsin substrate and a polycarboxylic chelating agent. The inclusion of the chelating agent in the assay has been found to reduce variation in the assay results.

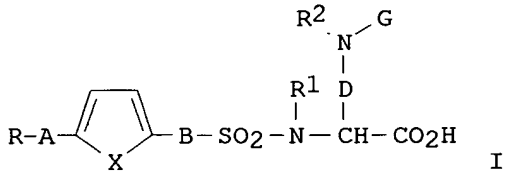
L7 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors
AN 1998:742172 CAPLUS
DN 129:331057
TI Preparation and use of sulfonyldiaminocarboxylic acids as matrix-metalloproteinase inhibitors
IN Thorwart, Werner; Schwab, Wilfried; Schudok, Manfred; Haase, Burkhard; Neises, Bernhard; Billen, Gunter
PA Hoechst Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 77 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 877019	A1	19981111	EP 1998-108040	19980502
EP 877019	B1	20011212		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			DE 1997-19719585A	19970509
			DE 1997-19719428A	19970512
DE 19719585	A1	19981112	DE 1997-19719585	19970509
DE 19719428	A1	19981119	DE 1997-19719428	19970512

AT 210639	E	20011215	AT 1998-108040 19980502 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
ES 2165640	T3	20020316	ES 1998-108040 19980502 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
CA 2237052	AA	19981109	CA 1998-2237052 19980507 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
AU 9864824 AU 736700	A1 B2	19981112 20010802	AU 1998-64824 19980508 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
CN 1205328	A	19990120	CN 1998-115265 19980508 DE 1997-19719585A 19970509
CN 1206001	A	19990127	CN 1998-109840 19980508 DE 1997-19719585A 19970509
BR 9801604	A	19990608	BR 1998-1604 19980508 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
JP 11228529	A2	19990824	JP 1998-162707 19980508 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
US 6159995	A	20001212	US 1998-74587 19980508 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512
US 6355673	B1	20020312	US 2000-690475 20001018 DE 1997-19719585A 19970509 DE 1997-19719428A 19970512 US 1998-74587 A319980508

OS MARPAT 129:331057

GI



I

AB Title compds. [(I); R = (substituted)phenyl or heteroarom. group; R1 = H, (substituted)alkyl, 2-pyridinyl-methyl; R2, G independently = H, (substituted)alkyl, alkenyl, (substituted)phenyl; R2, G together = (substituted) ring; A = bond, O, CY:CY; Y = H, bond; B = (CH2)1-3, O(CH2)1-5, CH:CH, bond; D = (CH2)1-6, where one C may be replaced by NH, O, or S; X = CH:CH, O, S], useful as matrix-metalloproteinase inhibitors, were prepd. and tested. Thus, (R)-citrulline was reacted with Cl-4-C6H4-SO2Cl to give I [R = Cl-4-C6H4; R1,R2 = H; A,B = bond; D = (CH2)3; G = CONH2 (II)], in 54% yield. In in vitro fluorescence extinction tests with stromelysin and neutrophilic collagenase, II had IC50 of 50x10-9 Mol/l and 7x10-9 Mol/l resp.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives
AN 1998:154789 CAPLUS
DN 128:180664
TI Method for the preparation of N2-arylsulfonyl-NG-nitro-L-arginines and their piperidinamide derivatives
IN Kikumoto, Ryoji
PA Mitsubishi Chemical Corp., Japan
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 823430	A1	19980211	EP 1997-113390	19970804
	EP 823430	B1	20011024		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				JP 1996-208087 A	19960807
	JP 10101649	A2	19980421	JP 1997-207508	19970801
				JP 1996-208087 A	19960807
	US 5925760	A	19990720	US 1997-904555	19970804
				JP 1996-208087 A	19960807
	AT 207482	E	20011115	AT 1997-113390	19970804
				JP 1996-208087 A	19960807
	ES 2166937	T3	20020501	ES 1997-113390	19970804
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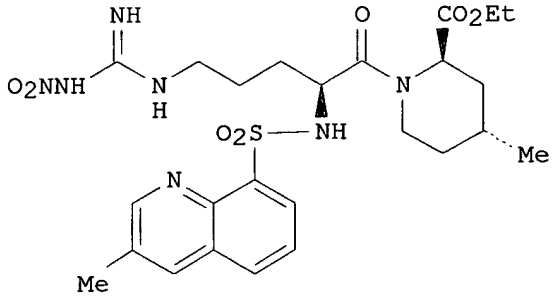
GI



II

AB ArSO2-Arg(NO2)-OH [Ar = quinolin-8yl, 3-alkylquinolin-8yl] was prepd. by the reaction of H-Arg(NO2)-OH with 8-quinolinesulfonyl chloride or with 3-alkyl-8-quinolinesulfonyl chloride. For example, H-Arg(NO2)-OH was reacted with 3-methyl-8-quinolinesulfonyl chloride in presence of 25% aq. NaOH and Na2CO3, and the product N2-(3-methyl-8-quinolinesulfonyl)-NG-nitro-L-arginine (I) was obtained after workup. Free acid I in THF was converted to the acid chloride with POCl3, and then, reacted with Et (2R,4R)-4-methylpiperidine-2-carboxylate in THF in the presence of Et3N to give the piperidinamide deriv. II in 78% yield. Piperidinamide deriv. II is a synthetic intermediate of argatroban.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Selective cleavage of protecting groups in arginine
AN 1996:639325 CAPLUS
DN 125:329321
TI Selective cleavage of protecting groups in arginine
AU Ferreira, P. M. T.; Maia, H. L. S.; Rodrigues, L. M.
CS Departamento de Quimica, Universidade do Minho, Braga, P-4710, Port.
SO Peptides 1994, Proceedings of the European Peptide Symposium, 23rd, Braga,
Port., Sept. 4-10, 1994 (1995), Meeting Date 1994, 151-152. Editor(s): Maia, Hernani L. S. Publisher: ESCOM, Leiden, Neth.
CODEN: 63MBAO
DT Conference
LA English
AB A report from a symposium on the electrochem. properties of arginine derivs. R-Arg(NO2)-OH [R = 4-O2NC6H4CH2O2C [Z(NO2)], tosyl] and selective electrochem. deprotection of Z(NO2)-Arg(NO2)-NHCH2Ph to give either H-Arg(NO2)-NHCH2Ph or H-Arg-NHCH2Ph.

L7 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of amino acid derivatives as neuropeptide Y antagonists.
AN 1995:662328 CAPLUS
DN 123:83996
TI Preparation of amino acid derivatives as neuropeptide Y antagonists.
IN Rudolf, Klaus; Eberlein, Wolfgang; Engel, Wolfhard; Mihm, Gerhard; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Krause, Juergen; Dollinger, Horst; et al.
PA Dr. Karl Thomae GmbH, Germany
SO PCT Int. Appl., 308 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9417035	A1	19940804	WO 1994-EP109	19940118
	W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, SK, UA				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				DE 1993-4301452A	19930120
				DE 1993-4326465A	19930806
	DE 4301452	A1	19940721	DE 1993-4301452	19930120
	DE 4326465	A1	19950209	DE 1993-4326465	19930806
				DE 1993-4301452A	19930120
	AU 9458841	A1	19940815	AU 1994-58841	19940118
	AU 683442	B2	19971113		
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				DE 1993-4326465A	19930806
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	EP 680469	A1	19951108	EP 1994-905073	19940118
	EP 680469	B1	20000426		
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				DE 1993-4301452A	19930120
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				WO 1994-EP109 W	19940118
	JP 08505862	T2	19960625	JP 1994-516636	19940118

				DE 1993-4301452A 19930120
				DE 1993-4326465A 19930806
				WO 1994-EP109 W 19940118
	AT 192142	E	20000515	AT 1994-905073 19940118
				DE 1993-4301452A 19930120
				DE 1993-4326465A 19930806
				WO 1994-EP109 W 19940118
	FI 9503467	A	19950718	FI 1995-3467 19950718
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				DE 1993-4326465A 19930806
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				DE 1993-4326465A 19930806
				WO 1994-EP109 W 19940118

PATENT FAMILY INFORMATION:

FAN 1994:701316

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4301452	A1	19940721	DE 1993-4301452	19930120
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				DE 1993-4326465A	19930806
	WO 9417035	A1	19940804	WO 1994-EP109	19940118

W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, SK, UA

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

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	AU 683442	B2	19971113	
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				DE 1993-4326465A 19930806
				WO 1994-EP109 W 19940118
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	EP 680469	B1	20000426	

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

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				WO 1994-EP109 W 19940118
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				DE 1993-4301452A 19930120
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				WO 1994-EP109 W 19940118
	HU 73770	A2	19960930	HU 1995-2174 19940118
				DE 1993-4301452A 19930120
				DE 1993-4326465A 19930806
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				DE 1993-4301452A 19930120
				DE 1993-4326465A 19930806
				WO 1994-EP109 W 19940118
	ES 2147230	T3	20000901	ES 1994-905073 19940118
				DE 1993-4301452A 19930120
				DE 1993-4326465A 19930806
	ZA 9400368	A	19950719	ZA 1994-368 19940119
				DE 1993-4301452A 19930120

US 5616620	A	19970401	US 1995-458093 19950601 DE 1993-4301452A 19930120 DE 1993-4326465A 19930806 US 1994-184160 B319940121
FI 9503467	A	19950718	FI 1995-3467 19950718 DE 1993-4301452A 19930120 DE 1993-4326465A 19930806 WO 1994-EP109 W 19940118
NO 9502869	A	19950919	NO 1995-2869 19950719 DE 1993-4301452A 19930120 DE 1993-4326465A 19930806 WO 1994-EP109 W 19940118
US 5807875	A	19980915	US 1996-763504 19961211 DE 1993-4301452A 19930120 DE 1993-4326465A 19930806 US 1994-184160 B319940121 US 1995-458093 A319950601

OS MARPAT 123:83996

AB TZNR1CR2R3COY(CH2)nR [n = 0-5; R = H, OH, (substituted) Ph, naphthyl, aminophenyl, aminonaphthyl, hydroxyphenyl, hydroxynaphthyl, diphenylmethyl, heteroaryl, cycloalkyl, etc.; Y = O, NR4; R1, R4 = H, alkyl, cycloalkyl, (substituted) Ph, PhCH2; R2 = substituted alkyl, Ph, PhCH2; R3 = H, alkyl, cycloalkyl; T = H, Ph, (substituted) heteroaryl, protecting group, etc.; Z = bond, CO, CH2, SO, SO2], were prepd. Thus, H-D-Arg(NO2)-OH in THF was treated with aq. NaOH and then with Ph2CHCOCl to give 85% amide. This in THF was treated with N-methylmorpholine, iso-Bu chloroformate, and 4-(aminomethyl)acetanilide under cooling to give 63% (R)-N-[[4-(acetylamino)phenyl]methyl]-N5-[amino(nitroimino)methyl]-N2-(diphenylacetyl)ornithinamide. This was hydrogenated in aq. HOAc over Pd to give (R)-N-[[4-(acetylamino)phenyl]methyl]-N2-diphenylacetylargininamide acetate. Title compds. antagonized neuropeptide Y-induced effects on blood pressure in rats at 0.01-10 mg/kg.

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

AN 1985:523873 CAPLUS

DN 103:123873

TI Amino acids and peptides. V. Synthesis of amino acid derivatives containing a sulfonamide bond

AU Maeda, Mitsuko; Okada, Yutaka; Sogabe, Maki; Kawasaki, Koichi

CS Fac. Pharm. Sci., Kobe-Gakuin Univ., Kobe, 673, Japan

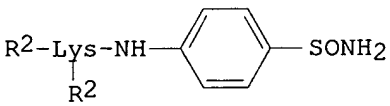
SO Chemical & Pharmaceutical Bulletin (1985), 33(5), 2137-41
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 103:123873

GI



II

AB Sulfanilyl amino acids p-H2NC6H4SO2-X-OH.HCl (X = Ala, D-Ala, Pro, Asp) were prepd. by sulfonylating H-X1-OMe.HCl [X1 = Ala, D-Ala, Pro, Asp(OMe)] with p-AcNHC6H4SO2Cl (AsulCl) and hydrolyzing the resulting Asul-X1-OMe (I; X1 = same) by 6N HCl. p-H2NC6H4SO2-Lys-OH.2HCl was prepd. via I [X1 = Lys(R) [R = CO2CH2Ph (Z) or CO2CMe3 (Boc)]], whereas p-H2NC6H4SO2-Arg-OH.2HCl was prepd. from I [X1 = Arg(NO2)]. Sulfonyllysines Asul-Lys(R1)-OH (R1 = Z, Asul), R2-Lys(Boc)-OH [R2 = dansyl, tosyl (Tos), MeSO2], and Tos-Lys(Tos)-OH were also prepd. Some of the sulfonyllysines exhibited fibrinolytic activity. Z-Lys(Z)-OH was condensed with p-H2NC6H4SO2NH2 by DCC to give lysylsulfanilamide II (R2 = Z), which was Z-deblocked by hydrogenolysis to give II (R2 = H) (III). About 60% of III was hydrolyzed by trypsin in 24 h. A drug acylated with an amino acid may improve soly. in H2O and act as a prodrug.

L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe
AN 1984:205401 CAPLUS
DN 100:205401
TI Tumor cell proteinase visualization and quantification using a fluorescent transition-state analog probe
AU Kozlowski, Karen A.; Wezeman, Frederick H.; Schultz, Richard M.
CS Chicago Stritch Sch. Med., Loyola Univ., Maywood, IL, 60153, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1984), 81(4), 1135-9
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English
AB The fluorescent proteinase transition-state analog inhibitor, dansyl-L-argininal (DnsArgH), may be a selective probe of cysteine and serine proteinases in a fibrosarcoma tumor cell line (HSDM1C1). DnsArgH binds with high affinity to proteinases because of its transition-state analog properties, and on assocn. it gives a dramatically increased fluorescent yield. The DnsArgH binding is inhibited by the serine proteinase inhibitor, diisopropyl fluorophosphate, and by the cysteine proteinase inhibitor, p-chloromercuribenzoate. The fluorescence emission appears at its max. steady-state yield immediately on addn. of DnsArgH to the HSDM1C1 fibrosarcoma cells. The immediacy of the DnsArgH reaction supports the contention that DnsArgH binding may be to cell surface-assocd. proteinases. Quantification of the cell proteinase concn., by comparison of the fluorescence yield obtained from DnsArgH interactions with bovine trypsin and papain, indicates 10-15-10-16 mol/proteinase/HSDM1C1 cell. In fluorescence microscopy, DnsArgH fluorescence appears distributed throughout the fibrosarcoma cell without assocn. to organelles. DnsArgH fluorescence from normal fibroblast controls (IMR-90) was substantially lower than in the transformed fibrosarcoma cells, supporting a hypothesis that proteinases have a role in malignancy.

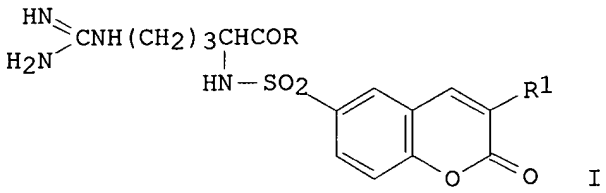
L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI A sensitive determination of trypsin and its inhibitor with a new substrate, tosyl-L-arginyl-L-phenylalanine

AN 1984:98776 CAPLUS
DN 100:98776
TI A sensitive determination of trypsin and its inhibitor with a new substrate, tosyl-L-arginyl-L-phenylalanine
AU Suzuki, Tateo; Takahata, Jutaroh; Miyauchi, Kohei; Meguro, Hiroshi
CS Fac. Agric., Tohoku Univ., Sendai, 980, Japan
SO Agricultural and Biological Chemistry (1983), 47(12), 2913-14
CODEN: ABCHA6; ISSN: 0002-1369
DT Journal
LA English
AB Tosyl-L-arginyl-L-phenylalanine (I) was synthesized from N.alpha.-tosyl-NG-nitro-L-arginine and L-phenylalanine benzyl ester p-toluenesulfonate. A sensitive method for detn. of trypsin with I as substrate was devised in which the phenylalanine released was detd. fluorometrically by fluorescamine. The incubation of enzyme with I soln. at pH 7.8 was done at 37.degree. for 20 min, after which fluorescamine was added and the emission wavelength at 475 nm was detd. (excitation wavelength 390 nm). An assay for trypsin inhibitors was developed with I as substrate and trypsin producing a known amt. of fluorescence increase. The lower limit of detection of trypsin by this method was 0.1 .mu.g, and of trypsin inhibitor, 0.05 .mu.g. Thus, the method is 20-fold more sensitive than the conventional one using a p-nitroanilide substrate. The relative std. deviation was 17% in the present method and 11% in the std. one.

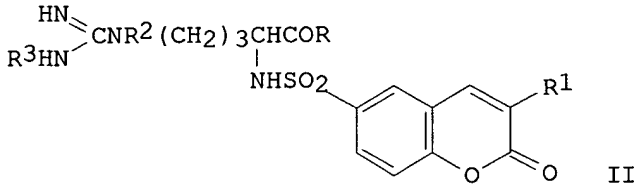
L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI N2-Coumarinsulfonylargininеamides
AN 1977:485236 CAPLUS
DN 87:85236
TI N2-Coumarinsulfonylargininеamides
IN Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji; Hijikata, Akiko
PA Mitsubishi Chemical Industries Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 52014769	A2	19770203	JP 1975-89406	19750722
	JP 60047266	B4	19851021		
				JP 1975-89406	19750722

GI



I



II

AB Eleven N2-coumarinsulfonylarginineamides I (R = 4-substituted piperidino, morpholino, BuMeN, MeO2CCH2CH2NH, BuNH, PhCH2NH, 4-substituted piperazino; R1 = H, Et) and their acid salts were prepd. by removal of the guanidine-protecting groups from NG-substituted-coumarinsulfonylarginineamides II (R2, R3 = H, guanidine-protecting groups; both R2 and R3 are not H). I had antithrombin activity. Thus, 0.64 g anisole and 3 mL HF were added to 1.08 g II (R = 4-ethylpiperidino, R1 =R2 = H, R3 = NO2) with Dry Ice-Me2CO cooling and the mixt. was stirred 30 min with ice cooling to give 78% I.HF (R = 4-ethylpiperidino, R1 = H).

L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI N.alpha.-Tosylarginine derivatives
AN 1974:121322 CAPLUS
DN 80:121322
TI N.alpha.-Tosylarginine derivatives
IN Inoue, Ken
PA Shionogi and Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 48081832	A2	19731101	JP 1972-14417	19720211
				JP 1972-14417	19720211

AB The arginines 4-MeC6H4SO2NHCH(COR)(CH2)3NHC(:NR1)NH2 I (R = OH, R1 = NO2) were halogenated to give I (R = halo), which were treated with CH2N2 to give I (R = CHN2). These were halogenated with HX to give I (R = CH2X), which were treated with HF to give I (R = CH2X, R1 = H). I are active center labeling agents for trypsin-like enzymes. Thus, 5.5 g NG-nitro-L-arginine in 2N NaOH was treated with Na2CO3, acetone, and 4-MeC6H4SO2Cl to give 8.16 g I (R = OH, R1 = NO2), which (1.87 g) in THF was chlorinated with PCl5 at -10 to 0.degree. to give 1.6 g I (R = Cl). 1.01 g I (R = Cl) in THF was treated with CH2N2 to give 0.88 g I (R = CHN2), which (0.25 g) was dissolved in N HCl-AcOH to give 0.18 g I (R = CH2Cl). Treatment of I (R = CH2Cl) with anisole and HF gave 0.18 g I (R =

CH2Cl, R1 = H) as HCl salt.

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a chloromethyl ketone derivative of arginine
AN 1974:96328 CAPLUS
DN 80:96328
TI Synthesis of TACK [N.alpha.-tosyl-L-arginine chloromethyl ketone], a chloromethyl ketone derivative of arginine
AU Inouye, Ken; Sasaki, Atsushi; Yoshida, Nobuo
CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
SO Bulletin of the Chemical Society of Japan (1974), 47(1), 202-3
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The chloromethyl ketone deriv. (I) of N.alpha.-tosyl-L-arginine was prepd.
via a cryst. NG-nitro-intermediate, which was converted into I with HF without appreciable impairment of the chloromethyl ketone moiety.

L7 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Esters of N.alpha.-arylsulfonyl amino acids
AN 1962:25288 CAPLUS
DN 56:25288
OREF 56:4853f-g
TI Esters of N.alpha.-arylsulfonyl amino acids
AU Serebryanyi, I. S. B.; Yurganova, L. G.; Neplyuev, V. M.
SO Ukrain. Khim. Zhur. (1961), 27, 365-9
DT Journal
LA Russian
AB L-RNHC(:NH)(CH2)3CHNH2CO2H and substituted PhSO2Cl form the following substituted RNHC(:NH)(CH2)3CHNH(O2SPh)CO2H (I) from which the Me esters (II) and HCl salts of II are prepd. (R, substituents in Ph, m.ps. of I and
II, and [.alpha.]20D of I and II, resp., given); H, p-MeO, 60-70.degree., 140.degree., -11.1.degree., -12.2.degree.; H, 2,4-(O2N)2, 157-9.degree., decompd. 192-3.degree., -33.9.degree., -27.0.degree.; O2N, 4-Me, 166-7.degree., 195.degree., 36.0.degree., -12.0.degree.; H, 3-O2N, -, decompd. 115-20.degree., -, -2.8.degree.; H, 2-O2N, -, decompd. 90-102.degree., -, -28.1.degree.. L-Histidine and p-MeC6H4SO2Cl form the analogs of I, decompg. 200.degree., [.alpha.]19D -35.3.degree., and II.HCl, decompg. 215.degree., [.alpha.]19D -28.5.degree..

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.34	347.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.46	-8.46

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STN INTERNATIONAL SESSION SUSPENDED AT 10:08:20 ON 28 APR 2003

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      47.34     347.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                      -8.46      -8.46

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     FILE 'REGISTRY' ENTERED AT 09:58:43 ON 28 APR 2003
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L2             0 SEARCH L1 SSS SAM
L3             0 SEARCH L1 SSS FULL
L4               STRUCTURE UPLOADED
L5             2 SEARCH L4 SSS SAM
L6            13 SEARCH L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:04:39 ON 28 APR 2003
L7            13 L6
L8             1 TRRYPSIN?
L9         67042 TRYPSIN?
L10            0 L7 AND L8

=>
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                      47.34     347.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                      -8.46      -8.46

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 25, 2003 (20030425/UP).

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NAME             CREATED      NOTES/TITLE
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CITERS/A          TEMP         44 ANSWERS IN FILE SCISEARCH
ESTERODOR/L       05 SEP 2002  42 L-NUMBERS
INDIUMCL3/A       30 MAY 2001  1 ANSWER IN FILE REGISTRY
LTWENTAUGFOR/A    04 AUG 2001  72 ANSWERS IN FILE CAPLUS
NEOTAMECRYST/A    24 APR 2001  59 ANSWERS IN FILE CAPLUS
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NVLARMFULGEN/A    19 APR 2001  196 ANSWERS IN FILE REGISTRY
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POHBENZALDEH/A    10 JUL 2001  5519 ANSWERS IN FILE CAPLUS
PRIMECMPDS/A      TEMP         62 ANSWERS IN FILE CAPLUS
PRODUCTS/A        TEMP         116 ANSWERS IN FILE CAPLUS
PROSTACMPD15/A    01 AUG 2001  34 ANSWERS IN FILE CAPLUS
RESTRSRCH/L       TEMP         17 L-NUMBERS
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NO SAVED SDI REQUESTS


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L27 (         20)SEA FILE=CAPLUS ABB=ON  PLU=ON  L26

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FULL ESTIMATED COST                                     0.06     347.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -8.46

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FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L29 (48) SEA FILE=REGISTRY SSS FUL L28
L30 94 SEA FILE=CAPLUS ABB=ON PLU=ON L29

=> l9 and l30
L31 2 L9 AND L30

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

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STN INTERNATIONAL SESSION SUSPENDED AT 10:48:21 ON 28 APR 2003

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PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:50:25 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 10:50:25 ON 28 APR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	347.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

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=> logoff hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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FULL ESTIMATED COST                                         0.42      347.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                         0.00       -8.46

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:50:34 ON 28 APR 2003

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Welcome to STN International!  Enter x:x

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PASSWORD:
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SESSION RESUMED IN FILE 'CAPLUS' AT 11:34:00 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 11:34:00 ON 28 APR 2003
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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FULL ESTIMATED COST                                         0.42      347.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
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     FILE 'CAPLUS' ENTERED AT 10:04:39 ON 28 APR 2003
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L9       67042 TRYPSIN?
L10          0 L7 AND L8

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L17 (        48)SEA FILE=REGISTRY SSS FUL L15
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L21 (         1)SEA FILE=CAPLUS ABB=ON  PLU=ON  85563-18-4P
L22 (         1)SEA FILE=REGISTRY ABB=ON  PLU=ON  85563-18-4/RN
L23 (         1)SEA FILE=CAPLUS ABB=ON  PLU=ON  L22
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L26 (         1)SEA FILE=REGISTRY ABB=ON  PLU=ON  5165-16-2/RN
L27 (        20)SEA FILE=CAPLUS ABB=ON  PLU=ON  L26
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     FILE 'CAPLUS' ENTERED AT 10:47:44 ON 28 APR 2003
                ACT TRYPSINH/A
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L28             STR
L29 (        48)SEA FILE=REGISTRY SSS FUL L28
L30          94 SEA FILE=CAPLUS ABB=ON  PLU=ON  L29
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L31           2 L9 AND L30

=> save temp all restrsrch/l
'RESTRSRCH/L' IN USE
A single name cannot be used for two saved items at the same time.
Enter "Y" if you wish to replace the current saved name with a new
definition.  Enter "N" if the current saved definition must be
preserved.  You may then reenter the SAVE command with a different
saved name.  Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a
list of your currently defined saved names.
REPLACE OLD DEFINITION? Y/(N):y
L# LIST L1-L31 HAS BEEN SAVED AS 'RESTRSRCH/L'

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     0.83     347.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -8.46

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:34:40 ON 28 APR 2003

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Welcome to STN International!  Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
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* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:33:39 ON 28 APR 2003
FILE 'CAPLUS' ENTERED AT 12:33:39 ON 28 APR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.83	347.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.83	347.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:33:47 ON 28 APR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content

NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003
NEWS 28 Mar 20 EVENTLINE will be removed from STN
NEWS 29 Mar 24 PATDPAFULL now available on STN
NEWS 30 Mar 24 Additional information for trade-named substances without structures available in REGISTRY
NEWS 31 Apr 11 Display formats in DGENE enhanced
NEWS 32 Apr 14 MEDLINE Reload
NEWS 33 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 34 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 35 Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 36 Apr 28 RDISCLOSURE now available on STN

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:40:02 ON 28 APR 2003

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

STN INTERNATIONAL LOGOFF AT 13:40:12 ON 28 APR 2003